

Depart	tment :	Computer Science and Engineering		
Academic Year : 2021-22				
Sr. No.	Programme Code	Name of the Programme		
01.	213	B. Tech. (Computer Science and Engineering)		

Following students have carried out their Internship/Field Project/Industrial Training for the academic session 2021-22

Si.No.	Name of the Students	Page No 1 To 95
1.	ABHISHEK KUMAR GUPTA	1-3
2.	BHUPESH MANHARE	3-6
3.	ANKUR BHOI	7-9
4.	ANKIT SONKAR	10-12
5.	AJAY KUMAR	13-15
6.	CHANDRASHEKHAR	16-18
7.	DEEPESH GARG	19-21





Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2019 No. 25 of 2019) Koni, Bilaspur – 495009 (C.G.)

8.	HARSH SAUDARSHAN	22-24
9.	KISHAN KUMAR	25-27
10.	RAHUL KUMAR JANGIR	28-30
11.	NIKHIL NISHAD	31-33
12.	NISHANT KUMAR	34-37
13.	PRABHAKAR KUMAR	38-40
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15.	PRANJALI PRIYA	44-46
16.	GUNUPURU PRAVEEN KUMAR	47-49
17.	RAHUL KUMAR JANGIR	50-52
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20.	S.SHIVA SAI KUMAR	62-64





Guru Ghasidas Vishwavidyalaya (A Central University Established by the Central Universities Act 2019 No. 25 of 2009) Koni, Bilaspur – 495009 (C.G.)

21.	SURAJ KUMAR	65-67
22.	VIKRAM SHISHUPALSINGH BAIS	68-70
23.	VISWA SAI REDDY	71-73
24.	ASTHA GARHEWAL	74-76
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27.	V. YASWANTHI	83-85
28.	VANDRASI MANISH NAIDU	86-88
29.	HANUMANTHU SANDEEP	89-91
30.	BRATIN CHAKRABARTY	92-95

REPORT ON INTERNSHIP

OPTICAL CHARACTER RECOGNITION

"LANGUAGE TECHNOLOGIES"

Under The Government Scheme
"Digital India Internship Scheme 2021"

at

MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY (MEITY) (Government of India)

Electronics Niketan, 6, CGO Complex, Lodhi Road, New Delhi - 110003

SUBMITTED BY:

ABHISHEK KUMAR GUPTA (18103002)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, SCHOOL OF STUDIES IN ENGINEERING & TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR-495009



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4. EasyOCR 4.1. EasyOCR Framework	21 21
 5. Novel techniques currently under-development and in use in the OCR field - CRAFT 6. Connectionist Text Proposal Network (CTPN) 7. Comparative Analysis of Tesseract and EasyOCR 8. References 9. Appendix 	26 27 28 31 32

CERTIFICATE

भारत सरकार Government of India इलेक्ट्रॉनिकी और सूचना प्रौद्योगिकी मंत्रालय Ministry of Electronics & Information Technology इलेक्ट्रॉनिक्स निकेतन, 6, सी जी ओ कॉम्पलेक्स, नई दिल्ली-110003 Electronics Niketan, 6, C G O Complex, New Delhi-110003 Website: www.meity.gov.in

संख्या 17(3)/2021-Pers.I

दिनांक 14.09.2021 Date.....

CERTIFICATE OF COMPLETION OF INTERNSHIP

This is to certify that **Shri Abhishek Kumar Gupta S/o Shri Santosh Kumar Gupta**, a student of B.Tech. (Computer Science & Engineering), Guru Ghasidas Vishwavidyalaya, Bilaspur has successfully completed two (02) months internship [from 1st June to 30th July, 2021] under Digital India Internship Scheme 2021 of this Ministry, in the area of **Language Technologies**.

We wish him every success in life.

(Bhuvnesh Kumar) Joint Secretary (Personnel) Tel. No.: 24363114







Full Stack Web Development

Under the Training Portal

"EFA"

EDC Building Rajiv Gandhi Park 2nd Floor Chandigarh India - 160101

Submitted by

Bhupesh Manhare(18103016) Ajay Kumar(18103005)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR -495009





EFA is an online learning portal, it aim to become India's largest on-demand learning platform for skills. It envision that talents and tutors from all over India get a platform through which they can spread their knowledge and make a career out of digital course creation. For students, its focus is providing them with the highest quality learning material at a fraction of cost, and complete ease of learning.

EFA's Mission & Core Values For Students

- To provide affordable learning to students from all financial backgrounds
- To provide education in languages convenient to students from all regions
- To provide skills that helps upgrade and uplift learners intellectually and financially
- To generate confidence in learners and generate a sense of achievement that brings positivity in their lives
- To help generate employment opportunities for students
- To opt only for accurate and honest marketing strategies

For Tutors

- To give an opportunity to ALL creators of any age and background to showcase and spread their knowledge.
- To give an opportunity for creators to uplift themselves financially.
- To develop the spirit of entrepreneurship amongst creators that further creates employment
- To allow the creators to create a legacy of their knowledge and skill base.
- To promote creators and help them receive the recognition their work deserves.

CERTIFICATES



CYBER SECURITY UNDER THE TRAINING PLATFORM "PROGRAMMING HUB"

SUBMITTED BY:

ANKIT SONKAR (18103011) ANKUR BHOI (18103012)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR - 495009

Programming Hub is an online training platform. It was founded by **Nigel Crasto**, He is a Software Engineer with extensive product Development experience in renowned IT MNCs. He was an **ace Android Developer** before becoming the founder of Programming Hub. This application helps students to find several Courses with organizations in India.

HISTORY:

In 2014, first version of Android App was released. In 2015, the application crossed 1M downloads. In 2016, It was selected for launchpad accelerator class two. Mentored and funded by Google.

In 2017, App version 2.0 was released. In 2018 iOS version of the app was released and the app **crossed 5M downloads**. In 2019, Web version of the app was Launched.

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COMPANY PROFILE

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CERTIFICATE

OF COMPLETION

Programming Hub Certifies that

ANKIT SONKAR

has successfully completed

Cyber Security Certification Course

and has knowledge of Cyber Security.



Certificate ID: 1631476241653 Granted on September 13, 2021 Nigel Crasto

Director

Programming Hub

Tito Idicula

Director

Programming Hub

Full Stack Web Development

Under the Training Portal

"EFA"

EDC Building Rajiv Gandhi Park 2nd Floor Chandigarh India - 160101

Submitted by

Bhupesh Manhare(18103016) Ajay Kumar(18103005)



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CERTIFICATES



REPORT

ON

Python with Machine Learning

Under the Internship Institute

"PIE INFOCOMM PVT. LTD."

1st floor,B-12,Sector E,Aliganj,Lucknow,Uttar Pradesh **Submitted by**

CHANDRASHEKHAR (18103017)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR -495009





PIE INFOCOMM PVT. LTD. Is a registered software company that has been providing specialized IT services and business solutions since 2002 to make the business operations easier. Company's motto is "Generating ideas" and implement it to give our clients best in the field of software Development, Auto cad designing as well preparing blueprints of motors and the spare parts.

PIE INFOCOMM PVT. LTD. is also provide internship opportunities in varies technical and managerial fields. The company is providing internship in technologies like cloud computing, machine learning, php and many more.

CERTIFICATE



INTRODUCTION TO DJANGO

Under The Training Institute

"GREAT LEARNING ACADEMY"

2nd Floor, Orchid Centre, Sector 53, Golf Course Road, Gurgaon Haryana - 122002

SUBMITTED BY:

DEEPESH GARG (18103019)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING SCHOOL OF STUDIES IN ENGINEERING & TECHNOLOGY GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR-495009





Great Learning is one of India's leading ed-tech companies for professional and higher education. It offers career-relevant programs from world-class universities in the most in-demand domains.

Great Learning was conceived by Mohan Lakhamraju and Hari Krishnan Nair in 2013, with a goal to deliver high-quality blended learning outcomes in Analytics, Data Science, AI, Deep Learning, Cloud Computing, and Machine Learning. Recently, It expanded their offerings to include programs in Cybersecurity, Software Development, and Business.

Keeping in mind the importance of constant skill development in an effort to stay relevant, it crafted these programs with institutions such as Stanford GSB (Executive Education), Stanford Center for Professional Development, McCombs School of Business (UT Austin), and the Great Lakes Institute of Management. Their team of over 1,000 faculty members and mentors, including the country's top Data Science experts, conducts programs across India. What's more, It also works with students from the Middle East, Southeast Asia, Africa, Australia, the US, and the UK. Till date, It has delivered more than 7 million hours of learning to thousands of students.

Great Learning's Business Analytics program was also ranked #1 by Analytics India Magazine four years in a row.

CERTIFICATE



Presented to

Deepesh Garg

For successfully completing a free online course Introduction to Django

Provided by

Great Learning Academy

(On September 2021)

To verify this certificate visit verify.greatlearning.in/QGOMYSRH

The Fundamentals of Digital Marketing

Under the Training Institute

"GOOGLE DIGITAL GARAGE (ANALYTICS)"

Survey No. 13, Divya Shree Omega Kondapur Village Hyderabad, Telangana India – 500084

Submitted by

Harsh Saudarshan (17103242)



DEPARTMENT OF COMPUTER SCIENCE SCHOOL OF STUDIES (ENGINEERING & TECHNOLOGY) GURU GHASIDAS UNIVERSITY – 495009





The Digital Garage is a non-profit nationwide programme from Google delivering free digital skills training via an online learning platform. This platform provides individuals with a tailored training plan to learn digital skills, completely for free.

The Google Digital Garage project was launched in 2015, to enable *anyone* to learn the fundamentals of online marketing so that they can take their business online and enjoy all the benefits, regardless of their skills or background. The free online learning platform delivers a full digital skills course, using relatable examples of how different types of small businesses can use digital channels in different ways. Upon completion of the online course, learners will then receive a certificate endorsed by Google and the IAB Europe.

CERTIFICATE



Android Application Development

Under the Training Institute

"INTERNSHALA"

Scholiverse Educare Pvt. Ltd. B-610, Unitech Business Zone, Nirvana Country, South City 2, Gurgaon, India - 122018

Submitted by

KISHAN KUMAR(18103027)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR -495009





Internshala is an internship and online training platform, based out of Gurugram, India. It was founded by Sarvesh Aggarwal, an IIT Madras alumnus, in 2010. The website helps students find internships with organizations in India.

HISTORY

The platform started as a WordPress blog that aggregated internships across India and published articles on education, technology and skill gap. Internshala launched its online training portal in 2014. As of 2018, the platform had 3.5 million students and 80,000 companies.

PARTNERSHIPS

In August 2016, Telangana's not-for-profit organization, Telangana Academy for skill and knowledge (TASK) partnered with Internshala to help students with Internship resources and career services.

In September 2016, Team Indus, a Google XPRIZE shortlisted entity, partnered with Internshala for college outreach for its initiative, Lab2Moon.

AWARDS AND RECOGNITION

In 2011, the website became a part of NASSCOM 10k startups. In 2015, Internshala was a finalist in People Matters TechHR 2015 Spotlight Awards under 'Futurism in Recruitment category.

CERTIFICATE



on

Machine Learning

Under the Training Institute

"INTERNSHALA"

Scholiverse Educare Pvt. Ltd. B-610, Unitech Business Zone, Nirvana Country,

South City 2, Gurgaon, India - 122018

Submitted by

Rahul Kumar Jangir (18103043)

Naveen Kumar Kaushik (18103032)



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CERTIFICATES



Ethical Hacking

Under the Training institute

"Programming Hub"

Submitted By Nikhil Nishad (18103034)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR -495009

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CERTIFICATE



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CERTIFICATE

OF COMPLETION

Programming Hub Certifies that

NIKHIL NISHAD

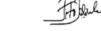
has successfully completed

Ethical Hacking Certification Course

and has knowledge of Ethical Hacking.







Programming Hub

Tito Idicula

Programming Hub

REPORT ON VOCATIONAL TRAINING

Data Structures & Algorithms

Under the Training Institute

"CODING NINJAS"

Plot No. 360, Kohat Enclave, Main Pitampura Road, Pitampura, Delhi - 110034

Submitted by

NISHANT KUMAR(18103035)







Coding ninjas is an online training platform, based out of Delhi, India. It was founded by Ankush Singla, Kannu Mittal and Dhawal Parate, in 2016. Coding Ninjas boasts of world-class teaching faculty and a state-of-art learning platform for Coding education with faculty alumni of IIT, Stanford, IIIT and Facebook.

HISTORY

Coding Ninjas was founded in 2016 to bridge the knowledge gap between colleges and industry. Currently Coding ninjas ecosystem comprises of 40,000+ students and alumni, 1000+ Campus Ambassadors, 2000+ Teaching Assistants, and 150+ employees.

PARTNERSHIPS

Coding Ninjas partners with Talent500 by ANSR to create employment opportunities in the technology domain.

Talent500 by ANSR, the exclusive talent acquisition partner for Fortune 500 companies in India, has announced its partnership with Coding Ninjas, India's premier Ed-tech platform offering courses in Technology and skilling, to create employment opportunities for aspiring engineers and tech professionals. The strategic partnership intends to offer placement opportunities to students and tech professionals with leading tech companies.

AWARDS AND RECOGNITION

According to Entrepreneur India, Coding Ninjas bags the Best Education Startup of The Year Award 2020

TRAINING CERTIFICATE



After the completion of this Course. I've cleared the test for Teaching Assistant(TA) at Coding Ninjas in the course of Data Structures & Algorithms in c++.

My internship time period was started in feb 2021 and ended in jun 2021.

During this internship I've resolved 1100 Doubts with an average rating of 4.84



EXPERIENCE CERTIFICATE



REPORT ON VOCATIONAL TRAINING

Ethical Hacking

(Web application security)

Under the Training Institute

"INTERNSHALA"

Submitted by

PRABHAKAR KUMAR (18103038)







Internshala is an internship and online training platform, based out of Gurugram, India. It was founded by Sarvesh Aggarwal, an IIT Madras alumnus, in 2010. The website helps students find internships with organizations in India.

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CERTIFICATES



INDUSTRIAL TRAINING REPORT

"MACHINE LEARNING"

Submitted in partial fulfilment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY COMPUTER SCIENCE ENGINEERING

Submitted By

Prabuddha Kumar Dwivedi, Roll no. 18103039



Department of Computer Science and Engineering School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur

FEB - JULY - 2021



CED		(\mathbf{F})	A	TF
CER	T)		\mathbf{A}	\mathbf{L}

Certified that training work entitled "Industrial Training On Machine Learning" is a bonafied workcarried out in the VII semester by "Prabuddha Kumar Dwivedi" In partial fulfilment for the award of the degree of Bachelor of Technology in Computer Science Engineering from, School of Studies in Engineering and Technology, GGU (2021-22).

Mrs. Princy Mitali Assistant Professor, CSE

Alok Kushwaha H.O.D, CSE Deptt

ACKNOWLEDGEMENT

I would like to acknowledge the contributions of the following people without whose help and guidance this report would not have been completed. I acknowledge the counsel and support of our training coordinator, Mrs. Princy Mitali, Assistant Professor, CSE Department, with respect and gratitude, whose expertise, guidance, support, encouragement, and enthusiasm has made this report possible. Their feedback vastly improved the quality of this report and provided an enthralling experience. I am indeed proud and fortunate to be supported by him/her. I am also thankful to

Prof. (Dr.) Alok Kushwaha, H.O.D of Computer Science and Engineering, B.Tech, School of Studies in Engineering and Technology, Guru Ghasidas Vishwavidyalaya, Bilaspur for his constant encouragement, valuable suggestions and moral support and blessings. Although it is not possible to name individually, I shall ever remain indebted to the faculty members of

School of Studies in Engineering and Technology their persistent support and cooperation extended during this work. This acknowledgement will remain incomplete if I fail to express our deep sense of obligation to my parents and God for their consistent blessings and encouragement.

Prabuddha Kumar Dwivedi (18103039)

REPORT ON VOCATIONAL TRAINING

Software-Engineering-Internship

Under the Company

Kapslock.in

Submitted by

Pranjali Priya(18103040)





After finishing Masters in Information Technology, 3 friends; Ankur Kankonkar, Rhugveda Desai and Amey Gaonkar were eager to venture into the professional world. Being the bright minds of the 21st century India, they were charged by the start-up culture and had the idea of starting a venture of their own. After a few months of planning, analysing and innovation kapslock.in was started on 15th August 2019.

Based in Goa, India they aim to provide quality software services at affordable prices. The internet has immense opportunity for promotion and support of businesses of all scale and size and kapslock.in is here to make it possible for you.

Mission

Our mission is to provide an online platform by leveraging technology and furthermore to empower and open the horizons of the digital world to one professional, one business and one institution at a time.

Industry Knowledge

Service Based Software Development Company.

CERTIFICATE





To whomsoever it may concern,

29th, July 2021

This is to certify that Ms. Pranjali Priya has successfully completed her internship with us from May 19, 2021 to July 26, 2021.

During her tenure, Pranjali was working as a Software Engineering intern. Her task was to create a Portfolio website using Wordpress and Elementor.

She learned different skills such as:

- HTML5
- CSS3
- Javascript
- Bootstrap
- WordPress

It was a pleasure having Pranjali as a part of our team. We wish her the best in her future endeavors.

For Kapslock.in,

Por Kapstack.In

Ankur Kankonkar Co-Founder & CEO Kapslock.in | +91 8329167539

REPORT ON PYTHON WITH DJANGO INTERNSHIP

INTRODUCTION TO DJANGO

Under The COMPANY OF

"BRAIN O VISION"

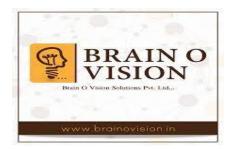
LVS Arcade, Plot No. 71, Jubilee Enclave, Hitec City, Madhapur, Hyderabad – 500081,

SUBMITTED BY:

GUNUPURU PRAVEEN KUMAR (18103021)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING SCHOOL OF STUDIES IN ENGINEERING & TECHNOLOGY CUPU GHASIDAS VISHWAVIDYALAYA, BILASPUR-495009



Brain O Vision is a top I.T rethinking organization with upbeat and fulfilled customers across the globe. They have efficiently completed 1000+ projects. A huge number of new companies to huge endeavors have accomplished business objectives with their exceptionally successful software, web, versatile application advancement and plan services.

Different B2B stages have given them top evaluations as they take a stab at 100% customer fulfillment. They have four improvement habitats and a major group of affirmed designers across different advancements. Their organizations with tech monsters have engaged us to satisfy the total necessities, all things considered.

They cling to CMMI Level 3 guidelines and have great involvement with overseeing easy to complex undertakings. Their accomplished experts are prepared to deal with tight cutoff times. Organizations from each side of the world incline toward us as they give ensured reaction inside 24 hours. Valuing plans(support,fixed,hourly and man-month) of BRAINOVISION are intended to suit the different necessities of customers. Customer support is the essence of their business. Tending to questions and worries of customers is a high speed for them. Customers consistently appreciate our specialized skill, advancement measure, polished methodology, exacting adherence to worldwide quality guidelines, proactive conduct, and so forth their examples of overcoming adversity persuade us to convey better.

CERTIFICATE



TO
Gunupuru Praveen Kumar
Guru Ghasidas Vishwavidyalaya

INTERNSHIP CERTIFICATE

This is to certify that **Gunupuru Praveen Kumar** has successfully completed his **One Month Online Internship** program with **BrainOvision Solutions Pvt. Ltd.** He was working on **Python with Django** and was actively & diligently involved in the projects and tasks assigned to him. During the span, we found him punctual and hardworking person.

His feedback and evolution proved that he is a quick learner. Congratulations and Best Wishes.

ROLE : Python with Django Developer

INTERN ID : **BOVJ01P12160**START DATE : **01st - JUNE -2021**END DATE : **30th-JUNE-2021**

Yours faithfully
Name Bala Maheshwar
Technical Manager
BRAIN O VISION SOLUTIONS (INDIA) PVT LTD

REPORT ON VOCATIONAL TRAINING

on

Machine Learning

Under the Training Institute

"INTERNSHALA"

Scholiverse Educare Pvt. Ltd. B-610, Unitech Business Zone, Nirvana Country,

South City 2, Gurgaon, India - 122018

Submitted by

Rahul Kumar Jangir (18103043)

Naveen Kumar Kaushik (18103032)







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In September 2016, Team Indus, a Google XPRIZE shortlisted entity, partnered with Internshala for college outreach for its initiative, Lab2Moon.

AWARDS AND RECOGNITION

In 2011, the website became a part of NASSCOM 10k startups. In 2015, Internshala was a finalist in People Matters TechHR 2015 Spotlight Awards under 'Futurism in Recruitment category.

CERTIFICATES



REPORT ON SEMINAR

Database Management Essentials

Under the Company

"Coursera"

Submitted by -

RISHABH RAJ [18103046 (33)]







Coursera Inc. is an American massive open online course provider founded in 2012 by Stanford University computer science professors Andrew Ng and Daphne Koller. Coursera works with universities and other organizations to offer online courses, certifications, and degrees in a variety of subjects. In 2021 it was estimated that about 150 universities offered more than 4,000 courses through Coursera.

HISTORY

Coursera was founded in 2012 by Stanford University computer science professors Andrew Ng and Daphne Koller. Ng and Koller started offering their Stanford courses online in fall 2011, and soon after left Stanford to launch Coursera. Princeton, Stanford, the University of Michigan and the University of Pennsylvania were the first universities to offer content on the platform. Offerings have since expanded to include Specializations – collections of courses that build skills in a specific subject – as well as degrees and a workforce development product for businesses and government organizations.

In 2014 Coursera received both the Webby Winner (Websites and Mobile Sites Education 2014) and the People's Voice Winner (Websites and Mobile Sites Education) awards.

PARTNERSHIPS

As of December 2019, the total number of partners is more than 200 across 29 countries. Coursera mainly works with universities and colleges, but also with corporations and governments. University partners include University of São Paulo in Brazil, University of London in the UK, Indian School of Business of India, Yonsei University in Korea, and institutions like Yale, University of Illinois and University of Pennsylvania. Google launched a Professional certification program. Google will consider all of its certificates as the equivalent of a four-year college degree

EXPERIENCE CERTIFICATE



REPORT ON SUMMER INTERNSHIP

Fair classification via Crowdsourcing

Under the Technical Institute

"INDIAN INSTITUTE OF TECHNOLOGY, ROPAR"

CONTINUING EDUCATION & OUTREACH ACTIVITIES

Rupnagar, Punjab- 140001, India

Phone: 01881-231120/email-office-ceora-1@iitrpr.ac.in

Submitted by

ROHAN GUPTA (18103047)







Indian Institute of Technology Ropar (IIT Ropar) is a technical university located in Rupnagar, Punjab, India. It is one of the eight newer Indian Institutes of Technology (IITs) established by the Ministry of Human Resource Development (MHRD), Government of India under The Institutes of Technology (Amendment) Act, 2011 to expand the reach and enhance the quality of technical education in the country.

HISTORY

The Indian Institutes of Technology (IITs) are autonomous public technical universities located across India. It is under the jurisdiction of Ministry of Education, Government of India. They are governed by the Institutes of Technology Act, 1961, which has declared them as Institutes of National Importance and lays down their powers, duties, and framework for governance. The Institutes of Technology Act, 1961 lists twenty-three institutes. Each IIT is autonomous, linked to the others through a common council (IIT Council), which oversees their administration. The Minister of Education is the ex officio Chairperson of the IIT Council. As of 2021, the total number of seats for undergraduate programs in all IITs is 16,232.

The history of the IIT system nearly dates back to 1946 when Sir Jogendra Singh of the Viceroy's Executive Council set up a committee whose

task was to consider the creation of *Higher Technical Institutions* for postwar industrial development in India. The 22-member committee, headed by Nalini Ranjan Sarkar, recommended the establishment of these institutions in various parts of India, along the lines of the Massachusetts Institute of Technology, with affiliated secondary institutions.^[17]

The first Indian Institute of Technology was founded in May 1950 at the site of the Hijli Detention Camp in Kharagpur, West Bengal. The name "Indian Institute of Technology" was adopted before the formal inauguration of the institute on 18 August 1951 by Maulana Abul Kalam Azad. On 15 September 1956, the Parliament of India passed the *Indian Institute of Technology (Kharagpur) Act*, declaring it as an Institute of National Importance. Jawaharlal Nehru, first Prime Minister of India, in the first convocation address of IIT Kharagpur in 1956 said:

Here in the place of that Hijli Detention Camp stands the fine monument of India, representing India's urges, India's future in the making. This picture seems to me symbolical of the changes that are coming to India.

On the recommendations of the Sarkar Committee, four campuses were established at Bombay (1958), Madras (1959), Kanpur (1959), and Delhi (1961). The location of these campuses was chosen to be scattered throughout India to prevent regional imbalance.^[21] The *Indian Institutes of* Technology Act was amended to reflect the addition of new IITs.^[1] Student agitations in the state of Assam made Prime Minister Rajiv Gandhi promise the creation of a new IIT in Assam. This led to the establishment of a sixth institution at Guwahati under the Assam Accord in 1994. In 2001, the University of Roorkee was converted into IIT Roorkee. [9] Over the past few years, there have been a number of developments toward establishing new IITs. On 1 October 2003, Prime Minister Atal Bihari Vajpayee announced plans to create more IITs "by upgrading existing academic institutions that have the necessary promise and potential".[22] Subsequent developments led to the formation of the S K Joshi Committee, in November 2003, to guide the selection of the five institutions which would be converted into IITs. Based on the initial recommendations of the Sarkar Committee, it was decided that new IITs should be spread throughout the country. When the government expressed its willingness to

correct this regional imbalance, 16 states demanded IITs. Since the S K Joshi Committee prescribed strict guidelines for institutions aspiring to be IITs,^[23] only seven colleges were selected for final consideration.^[24] Plans are also reported to open IITs outside India, although there has not been much progress in this regard.^[25] Eventually in the 11th Five year plan, eight states were identified for establishment of new IITs.

In 2008 to 2009, eight new IITs were set up in Gandhinagar, Jodhpur, Hyderabad, Indore, Patna, Bhubaneswar, Ropar, and Mandi. Following same selection process since 1972, in 2012 the Institute of Technology, Banaras Hindu University was made a member of the IITs and renamed as IIT (BHU) Varanasi. [10]

In 2015 to 2016, six new IITs in Tirupati, Palakkad, Dharwad, Bhilai, Goa, and Jammu, approved through a 2016 bill amendment, were founded, along with the conversion of Indian School of Mines Dhanbad into IIT (ISM) Dhanbad.^[12]

The entire allocation by the central government for 2017-18 budget for all Indian Institutes of Technology (IITs) was slightly over ₹70 billion (US\$930 million). However, the aggregate money spent by Indian students for tertiary education in the United States was about six times more than what the central government spends on all IITs. [26]

AWARDS AND RECOGNITION

IIT Ropar has ranked on 205th position in the QS Asia Ranking 2020.^[26] The *Times Higher Education World University Rankings* ranked it 301–350 globally in the 2020 ranking.^[27] The National Institutional Ranking Framework (NIRF) ranked it 25th among engineering colleges in 2020 and 39th in Overall ranking in NIRF 2020.

CERTIFICATE



INDIAN INSTITUTE OF TECHNOLOGY ROPAR

CONTINUING EDUCATION & OUTREACH ACTIVITIES

Internship Certificate

Ref. No. HTRPR/CEOA/SI/2021/29

This is to certify that Mr/Ms. Rohan Gupta a student of B.Tech from Institue-Institute of Technology, Guru Ghasidas Vishwavidyalaya, Koni, Bilaspur has done his/her Internship, titled "Fair classification via crowdsourcing" from 17/05/2021 to 17/07/2021 under the supervision of Dr. Shweta Jain, Assistant Professor/Associate Professor/Professor, Department of Computer Science and

Engineering at this Institute.

Dr. Shweta Jain

Supervisor

Dr. Nitin Auluck

Head of Department

Dr. Apurva Mudgal

Dated: 17/08/2021

Associate Dean (CEOA)

Rupnagar, Punjab-140001, India Phone: 01881-231120 /e-mail: office-ceora-1@iitrpr.ac.in

REPORT ON VOCATIONAL TRAINING

on

Data Science

Under the Training Institute

"GREAT LEARNING"

Submitted by:

S.SHIVA SAI KUMAR (16103122)





Great learning is a platform that provides customised interactive visualisation for our data. The aim is to make our websites / articles / blogs less boring by providing interactive data visualisation that can be in the form of graphs, charts, maps, dashboard etc.

HISTORY

Started back in 2016 doing freelancing on Data Visualisation. Got the first big project in 2017 Of creating interactive dashboard for financial research paper which was published. 2019 Launched their first website and added more bloggers as trusted clients

HOW IT WORKS

- ➤ Upload the data
- > Select the visualisation type
- > Download / Export visalization

CERTIFICATES



CERTIFICATE OF COMPLETION

Presented to

SARLA SHIVA SAI KUMAR

For successfully completing a free online course

Data Science Foundations

Provided by

Great Learning Academy

(On August 2021)

REPORT ON VOCATIONAL TRAINING

on

Python for Data Science and Machine Learning

Under the Training Institute

"UDEMY"

ResCowork 07, 10th Floor, Tower B Unitech Cyber Park Sector 39 Gurgaon Gurgaon HR 122003 IN

Submitted by
Suraj Kumar (18103056)







Udemy, Inc. is an American massive open online course (MOOC) provider aimed at professional adults and students. It was founded in May 2010 by Eren Bali, Gagan Biyani, and Oktay Caglar.

HISTORY

In 2007, Udemy (you-de-mee, portmanteau of you + academy) founders Eren Bali and Oktay Caglar built a software for a live virtual classroom while living in Turkey. They saw potential in making the product free for everyone, and moved to Silicon Valley to found a company two years later. The site was launched by Bali, Oktay Caglar and Gagan Biyani in early 2010.

AWARDS AND RECOGNITION

Udemy has been mentioned in The New York Times, The China Post, Fast Company, the BBC, YPN and TechCrunch, with Mashable noting "Udemy offers an experience that rivals the real classroom, and should prove to be a useful utility for teachers and students of all subject matters."

In 2014, Forbes named Udemy cofounder Eren Bali as part of their "30 Under 30" of "the brightest stars in 15 different fields under the age of 30."

In 2020, Udemy Ranked on the Annual 'Change the World' List by Fortune Magazine.

Udemy Recognized as a 2021 Bay Area Best Place to Work.

CERTIFICATE



Certificate no: UC-66902198-8610-4020-9181-361x83/8860 Certificate urt. odn.mg/UC-66902198-8610-4030-9161-366x83/8860 Reference Number: 0004

CERTIFICATE OF COMPLETION

Python for Data Science and Machine Learning Bootcamp

Instructors Jose Portilla

Suraj Kumar

Date July 29, 2021 Length 25 total hours

REPORT ON VOCATIONAL TRAINING / INTERNSHIP

Software Development Intern

Under the Company "LIVEASY"

Transport Nagar, Alwar (Rajasthan)

Submitted by VIKRAM SHISHUPALSINGH BAIS (18103059[43])





DECLARATION

I hereby declare that all the work presented in this report in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Computer Science & Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, is an authentic record of the work done during the internship under Liveasy.

Vikram Shishupalsingh Bais (18103059)

CERTIFICATE



A 359 Transport Nagar, Alwar

Internship Certificate

Vikram Shishupalsingh Bais

from Guru Ghasidas Vishwavidyalaya college has completed Software Development Internship at Liveasy from 1 June-2021 to 1 August-2021.

We found him sincere, hardworking, dedicated and result oriented. He worked well as part af the team during his tenture. We take this opportunity to thank him wish him all the best for his future.

Awarded this on 7-August-2021

Pranav Gupta
[Founder]

Report on internship



Summer internship $(15^{TH} \text{ MAY TO } 15^{TH} \text{ JUNE 2023})$ Virtual internship

Under the guidance of:

Sandip Gavit(computer science engineer)

Techno Hacks.

SUBMITTED BY:

VISWA SAI REDDY(20103044)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, SCHOOL OF STUDIES IN ENGINEERING & TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR-495009.



CERTIFICATE

This is to certify that Mr. ViswaSaiReddy, a student of Institute Of Technology Guru Ghasidas University. Bilaspur has successfully completed Internship under "TECHNO HACKS "from Techno Hacks Edutech Ltd.

Virtual internship from 15-May-22 to 15-Jun-22 keen interest in learning new concepts. He has contributed ardently in the assigned activities throughout his training with us.

We wish him AB The Ver	y Best for his	professional	career	journey.

Thanking you.

Yours faithfully,

For Techno hacks

ACKNOWLEDGEMENT

An understanding of the study like this is never the outcome of the effort of a single person; rather, it bears the support of several persons who directly or indirectly helped us in completing the course of this internship. I would be failing in my duty if I do not say a word of thanks to all those whose sincere advice made our training period a real educational and pleasurable one. I take this opportunity to express our profound sense of gratitude and respect to all those who helped me throughout the project. I would like to take this opportunity to express my gratitude and sincere thanks to my mentor Mr. Sandip Gavit who offered me the chance to explore each and every plant in the industry. He helped me in coordinating and getting information from various departmental heads.

I am obliged for the valuable information and helping hand provided by him and his team amidst their busy schedule.

REPORT ON INTERNSHIP

Full Stack Web Development

Under the Start-up

"EDUSAINT"

575, 3645, Amrit Nagar, Jagamara, Bhubaneswar, Odisha 751030

Submitted by

ASTHA GARHEWAL(18103014)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR -495009



CERTIFICATE

INTERNSHIP CERTIFICATE



Edusaint Eduservices

Plot No 565/3675, Jagamara, Khandagiri, Bhubaneswar, India

To whom it may concern

This is to certify that Ms. Astha Garhewal, successfully completed 1 month (From 3th June 2021 to 4th July 2021) long Virtual internship at Edusaint. Her internship activity includes familiarizations to and developing Websites for Edusaint. She worked on PHP, HTML,CSS,Bootstrap and other related languages while working on this Project. She also got herself-involved in learning Search Engine Optimization at Edusaint.

She was majorly involved in an activity of Creating and Managing Database and working on UI for Edusaint.

During the period of her internship program with us, she had been exposed to different process and she was found punctual, hardworking and inquisitive.

We wish her every success in her life and career.

For, Edusaint Eduservices

400

Sachin Patro 9853456807

Founder, edusaint.com

DECLARATION

I hereby declare that all the work presented in this report in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Computer Science & Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, is an authentic record of the work done during the Internship from Edusaint.

REPORT ON VOCATIONAL TRAINING

on

Machine Learning

Under the Training Institute

"INTERNSHALA"

Scholiverse Educare Pvt. Ltd. B-610, Unitech Business Zone, Nirvana Country,

South City 2, Gurgaon, India - 122018

Submitted by

Rahul Kumar Jangir (18103043)

Naveen Kumar Kaushik (18103032)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR -495009



COMPANY PROFILE



Internshala is an internship and online training platform, based out of Gurugram, India. It was founded by Sarvesh Aggarwal, an IIT Madras alumnus, in 2010. The website helps students find internships with organizations in India.

HISTORY

The platform started as a WordPress blog that aggregated internships across India and published articles on education, technology and skill gap. Internshala launched its online training portal in 2014. As of 2018, the platform had 3.5 million students and 80,000 companies.

PARTNERSHIPS

In August 2016, Telangana's not-for-profit organization, Telangana Academy for skill and knowledge (TASK) partnered with Internshala to help students with Internship resources and career services.

In September 2016, Team Indus, a Google XPRIZE shortlisted entity, partnered with Internshala for college outreach for its initiative, Lab2Moon.

AWARDS AND RECOGNITION

In 2011, the website became a part of NASSCOM 10k startups. In 2015, Internshala was a finalist in People Matters TechHR 2015 Spotlight Awards under 'Futurism in Recruitment category.



Certificate of Training

Naveen Kumar Kaushik

from Guru Ghasidas Vishwavidyalaya, has successfully completed a six weeks online training on **Machine Learning**. The training consisted of Introduction to Machine Learning, Data, Introduction to Python, Data Exploration and Pre-processing, Linear Regression, Introduction to Dimensionality Reduction, Logistic Regression, Decision Tree, Ensemble Models and Clustering (Unsupervised Learning) modules.

We wish Naveen Kumar all the best for the future endeavours.

former

Sarvesh Agarwal
FOUNDER & CEO, INTERNSHALA

Date of certification: 2021-08-02

Certificate no.: 19B3F18E-4131-505F-99E8-B29093E86C25

For certificate authentication, please visit https://trainings.internshala.com/verify_certificate

विभागायक Head संगणक दिज्ञान एवं अभिवांत्रिकी Computer Science & Enga अभिवांत्रिकी एवं प्रो. अध्ययन शाला SOS, Enga, & Technology प्रा. विश्वविद्यालय, विशासपुर (ए.ग.)

REPORT ON VOCATIONAL TRAINING

on

Data Science

Under the Training Institute

"1STOP IN COLLABRATION WITH PLOT MY DATA"

Submitted by

A. Vamsi Krishna Raja (18103010)

V. Yaswanthi

(18103058)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR -495009



COMPANY PROFILE





1STOP in collaboration with Plot My Data is a platform that provides customised interactive visualisation for our data. The aim is to make our websites / articles / blogs less boring by providing interactive data visualization that can be in the form of graphs, charts, maps, dashboard etc.

HISTORY

Started back in 2016 doing freelancing on Data Visualisation. Got the first big project in 2017 Of creating interactive dashboard for financial research paper which was published. 2019 Launched their first website and added more bloggers as trusted clients

HOW IT WORKS

- Upload the data
- Select the visualisation type
- Download / Export visualization

CERTIFICATES



REPORT ON VOCATIONAL TRAINING

on

Data Science

Under the Training Institute

"1STOP IN COLLABRATION WITH PLOT MY DATA"

Submitted by

A. Vamsi Krishna Raja (18103010)

V. Yaswanthi

(18103058)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR -495009

विभागास्त्रज्ञ संगणक विज्ञान एवं अभियांत्रिकी Computer Science & Engg. अभियांत्रिकी एवं प्रो. अस्यवन शाल SOS, Engg. & Tochnology गु.पा. विश्वविद्यालय, विज्ञानपुर (छ.ग.) ३.G.Vishwavidyalaya, Bilassur (Ç. 6.

COMPANY PROFILE





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CERTIFICATES



REPORT ON VOCATIONAL TRAINING

on

Data Science

Under the Training Institute

"PLOT MY DATA"

Submitted by

Vandrasi Manish Naidu (18103057)

Hanumanthu Sandeep (18103022)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDASVISHWAVIDYALAYA, BILASPUR -495009



COMPANY PROFILE



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CERTIFICATES



REPORT ON VOCATIONAL TRAINING

on

Data Science

Under the Training Institute

"PLOT MY DATA"

Submitted by

Vandrasi Manish Naidu (18103057)

Hanumanthu Sandeep (18103022)



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING INSTITUTE OF TECHNOLOGY, GURU GHASIDASVISHWAVIDYALAYA, BILASPUR -495009



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Launched their first website and added more bloggers as trusted clients

HOW IT WORKS

Upload the data

- Select the visualisation typeDownload / Export visalization

CERTIFICATES



"Computer Graphics with Modern OpenGL and C++"

Submitted in partial fulfilment of the requirement for the award of Degree of

Bachelors of Technology

Ιn

Computer Science and Engineering



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERINGSCHOOL OF STUDIES ENGINEERING AND TECHNOLOGY,

GURU GHASIDAS VISHWAVIDYALAYA, BILASPUR, CHHATTISGARH(A CENTRAL UNIVERSITY)

Nov 2021

Under the Guidance of

Mr. Ben Cook

(Udemy)

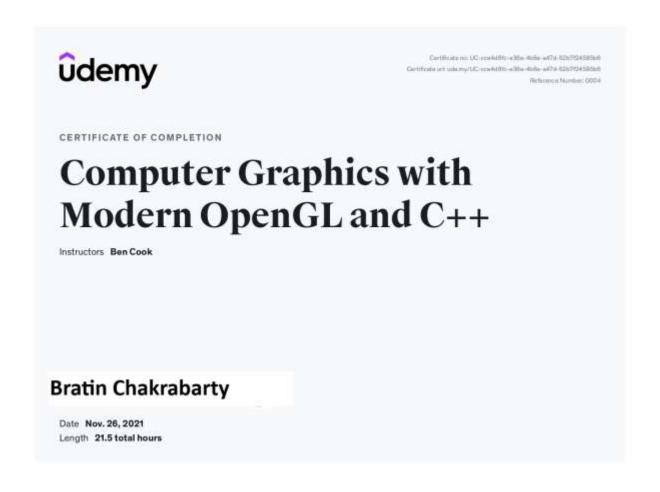
Submitted by

Bratin Chakrabarty (17103231,Old CBCS)

(Computer Science & Engineering, 7th Semester)



CERTIFICATE



Declaration

I hereby declare that all the work presented in this report in the partial fulfilment of the requirement for the award of the degree of Bachelor of Technology in Computer Science & Engineering, Institute of Technology, Guru Ghasidas Vishwavidyalaya, Central University, Bilaspur, Chhattisgarh, India is an authentic record of the work done during the vocational training under Udemy learning couse.



Bratin Chakrabarty (17103231,Old CBCS)