DEEPAK CHOUDHARY | 17CE31001

CIVIL ENGG. STRUCTURAL ENGG. (M.Tech Dual5Y)
deepkdc1910@gmail.com | 9039614844

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	M.TECH Dual Degree 5Y	IIT Kharagpur	8.10 / 10
2016	XII (CBSE)	Jawaharlal Nehru School, Bhopal	93.2%
2014	X (CBSE)	Jawaharlal Nehru School, Bhopal	9 / 10

COURSEWORK INFORMATION

- Probability and Statistics
- Machine Learning
- Programming and data structure
- Transform Calculus
- Mathematics-1,2
- Neural Network and Deep Learning
- Construction and Planning Management
- Engineering Drawing and Computer Graphics

AWARDS AND ACHIEVEMENTS

- Awarded First prize in Intra school Writers competition conducted by BHEL, Bhopal 2014
- Participated in International Mathematics Olympiad and successfully secured an international rank 656 in 2014.
- Ranked in top 1% among 1.86 lakhs students appeared in Joint Entrance Exam (Mains and Advanced) 2017
- Awarded the best volunteer inNational Service Scheme camp 2017

INTERNSHIPS

Redevelopment of Habibganj station, Bansal,Bhopal [December 2019]
- Studying and Analysing project (Construction of G+15 Commercial Building) under Project Manager.
- Infield experience of Surveying, Planning and Construction of East and West building.

PROJECTS

Project on Autonomous Carrier Shuttle by Prof. Baidorya Bhattacharya [Sep 2018 Nov 2018]
- Studied and analysed the Autonomous Carrier Shuttle System (Including Map routing and Parking area)
- Created a full cost benefit analysis of whole system including Internal Rate of Return and Benefit Cost Ratio

Meteorological Drought Prediction under Prof. Rajib Maity [March 2020]
- Predicted precipitation values by implementing Time Series Forecasting on monthly rainfall data
- Implemented SARIMA, Holt Winters and deep learning model on each Time Series and achieved 93% accuracy

Project on **Machine learning in Structural Health Monitoring** by Prof. Damodar Maity [July 2020 Dec 2020]
- Monitoring 3 storey frame structure Health using Using Multivariate linear regression and node analysis
- Different Neuron behaviour are used to model training and Precision Degradation fault detection was used

SKILLS AND EXPERTISE

- Programming Languages: PHP, MySQL, JavaScript, HTML, C, C++, Python, Java
- Software Packages: Revit, Autocad, Abaqus, Solid Works, Adobe Photoshop, Android Studio, Blender
- Library: Numpy, Pandas, Scikit-learning, Matplotlib

POSITIONS OF RESPONSIBILITY

Core Team Member, Megalith, IIT Kharagpur [July 2018 March 2019]
- Headed a 2-tier team of 3 Secretaries and 4 Captains to manage the practices and participations of Residents
- Helped in Development and Management of Back End part of Megalith 2019 official website

Core team Head (Web Team), Megalith, IIT Kharagpur [July 2019 March 2020]
- Creating the Website of Megalith 2020 (Civil Engineering Department, IIT KGP), MIP 2020, CRP 2020
- Responsible for successful conduction of 1 Guest Lecture, 2 workshops and 2 Exhibitions during the fest
- Single Handed managed whole online registration of 1000+ participants

National Service Scheme [July 2017 - April 2019]
- As a Group Leader of Unit 8, worked in the Village Balrampur for the welfare of the local people
- Conduct various activities like CPR workshop, Plantation to raise the awareness of villagers

EXTRA CURRICULAR ACTIVITIES

- Actively participated in various awareness drives and rallies conducted by National Service Scheme (NSS 2017)
- As Group Leader, participated actively in various social activities organized by NSS 2018
- Participated in Inter hall Illumination Competition
- Part of MMM hall Inter Hall Table Tennis team for 2 years (2017-18)

!self declaration by the student