



PREM PRAKASH NAYAK | 16CE10032

CIVIL ENGINEERING (B. TECH)

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Year	Degree/Exam	Institute	CGPA/ %
2020	B. Tech	IIT Kharagpur	6.09 / 10
2015	XII (Gujarat Board)	SHREE GATTU VIDYALAYA	80.3 %
2013	X (Gujarat Board)	SHREE GATTU VIDYALAYA	86%

COURSEWORK INFORMATION

- Transportation Engineering
- Structural Analysis
- Solid Mechanics
- Programming and Data Structure
- Probability and Statistics
- **Technical Software:** MATLAB | Jupyter Notebook | Microsoft Office | Staad Pro | Auto CAD
- **Programming Languages & Technologies:** C++ | Python | JAVA | JAVASCRIPT | SQL | Auto CAD
- Construction Project Management
- Structural Health Monitoring
- Engineering Drawings and Computer Graphics
- Transform calculus
- Basic Electronics
- Surveying
- Solid Mechanics

PROFESSIONAL EXPERIENCE

Consultant | Capgemini Technology Services India LTD September 2020 – Current

•Discover Financial Services

April 2022 - Current

- Worked with Discover Client on their Banking applications development and its deployment on OCP platforms.
- Implemented scalable API's and Functionalities which include **linking** of Discover account with PayPal Wallet called PayPal Push Functionality.
- Designed and implemented robust, efficient **enterprise level Microservices** following specific industry standards and guidelines using Spring Boot.
- Developed New RESTful APIs from scratch using Spring Boot Framework with **OpenApi Swagger**, spring jpa, hibernate using **circuit-breaker design** patterns.
- Deployed Apps and tested them On **PCF(Pivotal Cloud Foundry)** and **OCP(Openshift Container Platform)**.

INTERNSHIP

Oil And Natural Gas Corporation | Ankleshwar, Gujarat

May 2019 - July 2019

- Working under the mentorship of Mr. Rajendra Mane, Chief engineer(Civil) in Engineering Service division.
- Visited various working sites of ONGC, Jambusar, Gandhar, Dahej and got hands on experience of civil and foundation work of Oil rigs, also got exposure of their tendering work.
- Did Cost Estimation of Various Residential buildings and upcoming construction projects going on there and helped in maintenance work.
- Studied tender documents of the various published tenders and learnt the process and stages of accepting the tender, learnt the - contractor aspect of construction projects.

PROJECTS

RESEARCH PROJECT | Lecture Notes Generator | CNN | NLP

Jan 2019 - April 2019

- Converted speech to text from video lectures by using deep neural networks to process those texts which can be summarized using weighted frequency of words.
- Processing of the figures and text in image obtained from data were done by using convolutional neural networks using Computer vision to include Important images and text in Overall summarization of notes.
- By natural language processing, processed the text obtained from video using NLTK and spacy library, Filtered important words from the text on the basis of weighted frequency of words after sentence tokenization of texts.

Risk Assessment of Bridges using Fuzzy Logic control system | Guide: Prof. S.K. Barai

Jan 2019 - Feb 2019

- Designed a fuzzy controller for the risk assessment of bridges, Different type of bridge damage and collapse risk like Flood risk, Earthquake risk were taken as input and its membership functions were created.
- Using MATLAB, Created a Fuzzy logic control system, which can be used to predict damage level of different kind of bridges depending upon its vulnerability to different kind of risks.

AWARDS AND ACHIEVEMENTS

- Ranked in top 1% among 1.86 lakhs appeared in IIT Joint Entrance Exam (Mains and Advanced) 2016
- Got award and scholarship at school level in 2015 , for best academic record in batch.

POSITION OF RESPONSIBILITY

Core Organising Team Member | Megalith

July 2017-April 2018

- Megalith is the annual Technical festival of the **Department of Civil Engineering**, Indian Institute Of Technology, Kharagpur.
- Worked as 'Web team member' in Megalith 2018, responsible for the hosting, backend development of the website, formulation, planning and execution of the online registration of the participants
- Handled the database of all participants and analyse them to improve the publicity of the Fest and executed the **Publicity Campaign** in 60 colleges around 7 cities all over India and managed the crowd of 800 plus participants.

EXTRA CURRICULAR ACTIVITIES

- Group leader: Led the unit members in annual NSS camp resulting in 50% improvement in unit's performance.
- Participated in Inter-Hall illumination competition thereby contributing significantly in inter-hall GC events.