NAYAK PREMPRAKASH | 16CE10032   B.Tech 4Y

(Email: ppnayak61@gmail.com | Mobile: 8460243763)

Linked In:https://www.linkedin.com/in/premprakash-nayak-900391146/

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2020	B.TECH	IIT Kharagpur	6.19 / 10
2015	XII(Gujarat Board)	Shree Gattu Vidyalaya	79%
2013	X(Gujarat Board)	Shree Gattu Vidyalaya	86%

SKILLS AND EXPERTISE

- **Relevant Coursework:** Programming And Data Structure | Probability and Statistics | Algorithm | Linear And Matrix Algebra | Machine Learning | Soft Computing Tools in Engineering | Basic Electronics | Transform Calculus
- **Programming Languages &Technologies:** C++ | Python | JAVA |Spring Boot | JAVASCRIPT | SQL
- **Technical Software:** MATLAB | Jupyter Notebook | Microsoft Office |JIRA | App Dynamics | Instana

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 Foundary)** and **OCP(Openshift Container Platform)**.
- Worked on **Behaviour driven development(BDD)** Test in **Cucumber** Framework for acceptance testing.

- Worked on Java Backend Applications , Database connections and performing various operations using Spring JPA and hibernate and wrote Junit Test cases using **Mockito** framework and increased the test coverage as a part JUnit Testing.

- As a part of FAA-Guardian team, Worked and coordinated with test team to fix bugs in applications and developed Api endpoints for different functionalities in Spring Boot and wrote unit test cases with more than 90% coverage.

- Used **Continuous Integration/Deployment Pipeline** integration , pull requests , code reviews , load/stress testing , endurance testing by doing virtualization of downstream services.

- Adding useful **loggers and debugging** to analyze code breaks.

- Following **Agile methodology** for sprint planning ,executing and evaluating the tasks.

- **Alliance Data System**   **April 2021 - April 2022**

- Entire Project was divided into 6 units, Tower A,B,C,D,E,F. I was part of tower C which was related to API Development.

- Worked there as an API developer for development of Rest Api's and as SDET for solving defects related to API development arising during SIT and UAT testing.
- Developed Relevant **Troubleshooting** and **debugging** skills.
- Experience with **GIT** as a Version Management Services.

INTERNSHIPS

Internet Of Things And Machine Learning | BolT IoT   **June 2019 - July 2019**

•**Temperature Monitoring System**: Built the circuit for temperature monitoring system, using the Bolt and LM35 sensor, Wrote a python code which will fetch the temperature data, every 10 seconds, these data were collecetd on **Bolt Cloud**.
- Sends out an email alert, if the temperature goes beyond the threshold temperature , wrote Z-score analysis code in Python to detect anomalies in temperature and send message alert to users.
•**LED Control System:** Controlling Led brightness using API calls for **Bolt** and **Arduino,** used **PWM** (pulse width modulation) for controlling the intensity of LED from Bolt python Library.
•Worked on various other projects like Room light Intensity Monitoring system, Plant Monitoring System using **LDR**, Home Automation using Internet of Things and Machine learning, Analysed data obtained from project which were stored on **Bolt cloud**.

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 incude 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.
•Displayed these important points in the proper format so that it becomes easily understandable.

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.

ACADEMIC   ACHIEVEMENTS

• Ranked in top 1% among 1.86 lakhs appeared in IIT Joint Entrance Exam (JEE Advanced- 2016) **ALL INDIA RANK 7098 GENERAL.**
• Got award at school level in 2015, for best Academic record, got scholarship from school.

POSITIONS OF RESPONSIBILITY

Core Organising Team Member | Megalith | Annual technical Fest of Civil Engineering , IIT Kharagpur   **July 2017-April 2018**

•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.