

Raj Ranjan

Computer Science and Engineering (B.Tech 2018-22)

Indian Institute of Information Technology, Guwahati

Email rranjan01234@gmail.com

Website rajranjan0608.github.io

Contact [+91 7667711965](tel:+917667711965)

- github.com/rajranjan0608
- linkedin.com/in/iamrajanjan
- leetcode.com/iamrajanjan

TECHNICAL SKILLS

- **Programming Languages**

C, C++, Java, Python, Javascript, Solidity, Bash, Assembly (ARM)
- **Database Management**

MySQL, MongoDB, Blockchain (Ethereum)
- **Frameworks and Libraries**

TensorFlow, Pandas, NLTK, sklearn, NumPy, Node.js, Express.js, ReactJS, React Native, jQuery, Truffle, Bootstrap
- **Tools and Technologies**

Machine Learning, Artificial Intelligence, Deep Learning, AWS, GCP, Git, Heroku, gcc, g++

WORK EXPERIENCE

Programming Club Coordinator, IIIT Guwahati

Being 1 of the 6 coordinators, my work was to organise programming events like Competitive Programming contests, Hackathons, take sessions, webinars and maintain a healthy coding culture in the institute.

Project Lead, Technical Board Website, IIIT Guwahati

My work was to coordinate the senior and junior developers about their tasks and deadlines. Technology stack of the website includes **Node.js**, **MongoDB**, **Express.js** and **Vanila JS**. Codebase for the website is available [here](#). Since the junior developers were beginners (mostly 1st Yearites), handling them was one of the challenges.

Subject Matter Expert (CSE), Chegg

My work was to help students in their homework questions and doubts. Topics include questions on Programming, Operating Systems, DBMS, Data Structures and Algorithms and other computer science topics.

PROJECTS

Fake News Classifier

- **Team of 6**
- **Machine Learning Model**
- **Tensorflow, Pandas, NLTK, sklearn, Numpy, Python, ML Algorithms**

As a team of 6 students, we implemented fake news classifier model. We extracted features from the dataset like grammatical errors, deviation of title from the body of news and semantic analysis. These extracted features are then modelled on varius ML models like Decision Tree, RBFNN, MLP and Fuzzy KNN. I was assigned the task of extracting grammatical errors, modelling RBFNN and visualising the dataset. Google colab can be accessed through this [link](#).

QPidea - Books, Syllabus, Question Papers, GATE Resources

- **Team of 4**
- **Android and Website**
- **Node.js, Express.js, MongoDB, Java for Android, VanillaJS**

QPidea is an online repository of the above mentioned resources. It has a dedicated website and an Android application with 500+ downloads. My work was to develop REST APIs for the website and the Android application. Website can be accessed through this [link](#) and Android application with this [link](#).

Real Estate Back Office

- **Team of 4**
- **Website**
- **Node.js, Express.js, MySQL, VanillaJS**

It was a college project for the DBMS course. Here we have implemented admin and super admin features for managing a Real Estate selling website like 99 Acres, MagicBricks etc. Designed frontend for few pages like Add Property, Add Agents, User Authentication etc. Integrated few frontends with database and Node.js Backend. Ensured secure login by using Cryptr Library. Codebase is available [here](#) and for the demo please click [here](#).

Gaming Tour - Online esports organising company

- **Solo**
- **Website**
- **Node.js, PayTM SDK, Express.js, MongoDB, VanillaJS**

Gaming Tour is an online esports company which provides organisers and players a platform to organise and join esports tournaments like PUBG, COD, Valorant etc. Website is equipped with payment gateway to help organisers manage tournaments in a hassle free way. Website can be accessed through this [link](#).

Agora Blockchain - Blockchain secured e-voting

- **Solo**
- **Website (Blockchain)**
- **Node.js, ReactJS, Express.js, MongoDB, Ethereum, Solidity, web3.js**

Agora is an online library for different algorithms on e-voting. Using those voting algorithms, I have developed a blockchain solution for Agora. From frontend to backend, and integrating web with blockchain, was handled by me. Codebase is available [here](#). Demo video of this project can be accessed through this [link](#).

RELEVANT COURSES UNDERTAKEN / ONGOING

- Basic programming in C

• Data Structures

• Operating System

• Computer Networks

• Formal Languages and Automata Theory

• Artificial Intelligence
- Database Management Systems

• Algorithms

• Computer Organisation

• Cloud Computing

• Theory of Computation

• Machine Learning