

Mehul Shekhar Mukherjee

mehulshekharmukherjee@gmail.com

Education

Manipal Institute of Technology

B.Tech. in Information Technology
JUL 2019 | Manipal, India

Skills

Programming

Python • Java • C++

Database

SQL • MongoDB

Functional

Machine Learning • numpy • pandas • sklearn

Software Tools

SQL Developer • Android Studio • MATLAB • Eclipse • GIT • JIRA

Web Technologies

HTML • CSS • JavaScript • TypeScript • Angular

Concepts

MVC • REST • API • JSON

Coursework

Undergraduate

Design & Analysis of Algorithms
Object Oriented Programming -
Operating Systems
Computer Vision

Accomplishments

Received an internship opportunity at the prestigious SAMSUNG R&D Institute Bangalore

Key Projects (Undergraduate)

Automated Number Plate Recognition System

Trained a CRNN model on a dataset of 10,000 images to detect the number plate characters on a given image. Achieved an accuracy of 86%. Pre-processing of the dataset was done to reduce image noise. Libraries utilised – numpy, pandas.

Disaster Management APP

Designed and developed an android app which plots vibrational amplitude detected by the accelerometer of a cellular device on a graph. The application automatically sends locational details to emergency contacts on detection of anomalies on the graph plot. IDE – Android Studio

Document Retrieval

Implemented a record-level inverted index with a user interface for searching a word or a sentence in a set of thousand documents. When searching a phrase, the software returned the links of documents in which the searched phrase was present. This information retrieval was performed in under one second. The technology stack included python's flask web framework. Other technologies utilised – JavaScript, HTML

Experience

Deloitte India | SQL Developer Intern | MAY 2018 – JULY 2018

- Developed PL/SQL and NoSQL queries for database management
- Performed data analysis using AWS services

Samsung R&D Bangalore | Research Development Software Intern | JAN 2019 - JUN 2019

- Implemented YOLO for real time object detection
- Developed an android app for the above implementation which served as a proof of concept for utilising object detection in social robots
- Integrated Samsung's voice assistant, Bixby which provided voice command functionality
- The app detected only those objects which were given in a voice command.

Lumen Technologies | Software Development Engineer | AUG 2019 - Present

- Developed REST APIs which utilised multi-threading
- Designed and developed the front-end architecture of our ordering platform using Angular web framework
- Developed complex SQL queries
- Programmed and designed the business process management activities of our tollfree ordering workflow using JAVA Activiti
- As an individual contributor and full stack developer, I closely worked with business analysts for requirement break up and refinement.
- As part of the tollfree team, I am involved in scrum activities such as sprint grooming and planning