Mukul Mehta

Sophomore @ Computer Science and Enginnering, IIT Kharagpur

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

B.Tech in Computer Science and Engineering
CGPA: 9.11/10
2018-2022 | West Bengal, India

CENTRAL BOARD OF SECONDARY EDUCATION

Higher Secondary School Certificate Examination
Percentage: 94.8%
May 2018 | New Delhi, India

CENTRAL BOARD OF SECONDARY EDUCATION

Secondary School Certificate Examination
CGPA: 10/10
May 2016 | Hyderabad, India

CONTACT

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LINKS

- ✉ mukul.csiitkgp@gmail.com
- 🌐 mukul-mehta.github.io
- 🐙 mukul-mehta
- 🔗 mukul-mehta12
- f mukul.amehta

COURSEWORK

T - Theory | L - Laboratory

Completed
Programming & Data Structures (T/L)

Ongoing
Discrete Structures (T)
Algorithms-1 (T/L)

Online Courses
Machine Learning - Andrew Ng
ML - Coding Blocks (Ongoing)
Economics & Calculus - edX (Ongoing)

PROJECTS

IIT TECHNOLOGY AMBIT Backend Developer

Jun 2019 – Present
- IIT Technology Ambit is a tech magazine that covers innovation in tech across the IIT's, funded by the Dean, Sponsored Research and Industrial Consultancy, IIT Kharagpur.
- Part of a team building a REST based backend from scratch. I worked on writing DB Models, API Endpoints and unit tests.
- The REST Structure was built using Flask-RESTPlus and used other frameworks such as Flask-Login and Sendgrid API for mailing.

LIDRE Library Dues Notifier

- A service to notify dues in the library and send reminders by scraping the library website using Python-Selenium.
- Set up a cron job to fetch details from Google forms, parse the results and send a mail depending on when books are due. The mail is sent using Sendgrid API for Python.

PATH PLANNING AND KALMAN FILTER AGV Task Round

- Optimized multiple data structures and pathfinding algorithms(Dijkstra and A*) to find a solution for a given maze, with multiple constraints towards emulating a real car. Implemented in C++ using OpenCV.
- Implemented Kalman Filter for estimation and verification of uncertain observations by using Numpy, Matplotlib and OpenCV.

TECHNICAL SKILLS

Programming Languages	C | C++ | Python | JavaScript | GNU Octave
Libraries / Frameworks	Flask | Selenium | OpenCV | Numpy | sklearn | Snap.py
Databases	SQLAlchemy | MySQL | SQLite
Systems / Platforms	Git | Linux | Docker | Heroku | Nginx
Web Technolgies	HTML | CSS | Bootstrap | REST | BeautifulSoup

SCHOLASTIC ACHIEVEMENTS

- *Aditya Birla Scholarship*: Among the top 35 students in the country and the 4 from IIT KGP to be nominated for the interviews in 2018.
- JEE Advanced *AIR 215*: Under top 0.15% amongst more than 2,00,000 students
- JEE Main *AIR 1584*: In top 0.15% amongst more than 12,00,000 students.

ACTIVITIES & LEADERSHIP

- *Core Team Member, Kharagpur Open Source Society*: Responsible for the smooth conduct of events to familiarize students with open source technologies and philosophy.
- *Open Source Involvement:* Part of gold-winning OpenSoft team in my hall (Litigator). Worked on multiple projects, hosted on GitHub profile.
- *Tech Team, Gymkhana IIT Kharagpur* Part of a team that is the highest nominated technical position in the institute responsible for maintaining backend, student's grievance portal etc.