

Mukul Mehta

3rd Year Undergraduate @ Computer Science and Engineering, IIT Kharagpur

EDUCATION

IIT KHARAGPUR

B.TECH IN COMPUTER

SCIENCE AND ENGINEERING

CGPA: 8.64/10

2018-2022 | West Bengal, India

INTEREST AREAS

I'm intrigued by the idea of creating software and understanding how real world systems work.

I'm mainly interested in working on designing and building APIs and would love to work on applications of Scalable Data Mining and Natural Language Processing.

COURSEWORK

T - Theory | L - Laboratory

COMPLETED

Programming & Data Structures (T/L)

Discrete Structures (T)

Algorithms-1 (T/L)

Software Engineering (T/L)

Formal Logic & Automata Theory (T)

Switching Circuits & Logic Design (T/L)

High Perf. Scientific Computing (T/L)

Probability and Statistics (T)

ONGOING

Computer Architecture (T/L)

Compilers (T/L)

Scalable Data Mining (T)

Social Computing (T)

Algorithms-2 (T)

PROJECTS

RETROSPECTIVE ACCESS MANAGEMENT IN ONLINE ARCHIVES

UNDER PROF. MAINACK MONDAL

- Investigating the effectiveness of tools which enable users to retrospectively modify privacy settings (Social Media or Cloud Storage).
- Working on large-scale extraction of privacy settings & profile data from Twitter & Instagram to analyse patterns in privacy settings over time.

PRIMARY SOURCES FOR COMBATING MISINFORMATION

SUMMER PROJECT UNDER PROF. ADAM JATOWT, KYOTO UNIVERSITY

- Researched and implemented various BERT based models, with variations in model configuration, classification head and length of input tokens applied to contradiction classification on archival and temporal text data in order to understand how opinions evolve with time

OPEN SOURCE PROJECTS

- LTTKGP**: A webapp that serves data from the FB group Listen to This KGP. It can serve data, after filtering and fetching metadata using Spotify's API
- ASLI**: Another-Stupid-Lox-Interpreter, an interpreter written for Lox in Python with an extended core library containing some extra mathematical functions

TECHNICAL SKILLS

Programming Languages

Web Libraries / Frameworks

Databases

Systems / Platforms

ML Tools

C | C++ | Python | JavaScript | Go (Basic)

Flask | Django | Selenium | BS4 | ReactJS

Postgres | MongoDB | Elasticsearch | Redis

Git | Linux | Docker | Nginx | AWS | Kafka

PyTorch | scikit-learn | SNAP | SpaCy | NLTK

HACKATHONS

- Flipkart GRiD 2.0, Software Challenge**: Among the top 36 teams to qualify for level 3 out of 10000+ teams. Developed an LSTM+RNN based model that de-noises and separates primary speaker audio from a given audio sample, identifies primary language and converts speech to text. The model was built using PyTorch, uses a tuned DeepSpeech model for Speech-To-Text and serves results with FastAPI in near real-time
- IBM GreenHack Challenge**: Bagged the first prize in the competition with 60 participant teams. Developed an LSTM based model trained on weather data which takes into account irregularities in weather patterns to suggest crops for highest yield in a particular region

CONTACT & LINKS

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ACTIVITIES & LEADERSHIP

- Executive, Kharagpur Open Source Society**: KOSS promotes open source technologies and culture on campus. Conducted workshops meant to introduce Python, Git and Linux to freshers. Helped with smoothly conducting Kharagpur Winter of Code, an event to familiarize students with working on open source projects, with over 2500 registrations and 125 mentors and projects