

Sachin

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Education

Year	Degree/Board	Institute	GPA/Marks(%)
2019-2023	B.Tech in Computer Science & Engineering	Indian Institute of Technology, Delhi	9.407
2019	Class XII, CBSE	Star Public School	97.40%
2017	Class X, CBSE	Lords International School	10

Work Experience

Mastercard Gurugram, AI Intern: *Entity driven Representation learning* Jun, 2022 - July, 2022

- Designed Entity based feature representation of transactional data using LSTM, usable on any downstream problem
- Utilized four party model of mastercard to design entities and get transaction level and card level embeddings
- Used hierarchical softmax for extreme class classification, gross domestic value and TPP problem for testing

Projects

Driver Profiling | *Prof. Rijurekha Sen:* Dec, 2021 - Apr, 2022

- Detected rash driving on Delhi buses by profiling driver behavior using supervised learning on unlabelled data
- Simulated the GPS data on Unity in real-time to visualize data and performed anomaly detection of faulty sensors
- Developed heuristics to label the ground truth and used labeled data to perform classification using random forest

Shell based Operating System | *Prof. Sorav Bansal:* Feb, 2022 - Apr, 2022

- Developed a shell-based kernel from scratch that takes input from I/O devices and perform basic math operations
- Implemented Coroutines, Fibres, Non-Preemptive and Preemptive scheduling and multi-core functionality

Template Search in image | *Prof. Subodh Kumar:* Mar, 2022 - Apr, 2022

- Implemented an algorithm to determine the position of potentially rotated query image on input image concurrently
- Used CUDA for parallel computation, bilinear interpolation to compute rotated coordinates, and RMSD for error

Technical Skills

Languages: Java, Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

Frameworks: React, Node.js, Flask, JUnit, WordPress, Material-UI, FastAPI

Developer Tools: Git, Docker, TravisCI, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse

Libraries: pandas, NumPy, Matplotlib