Mangesh Yadav

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EDUCATION

Dhirubhai Ambani Institute of Information & Communication Technology-(DA-IICT)   **Aug 2017-May 2021**
B.Tech (Honors) in Information & Communication Technology with a minor in Computational Science   **Grade: 4.0**

SKILLS

Programming Languages	Python, JavaScript, Java, C++, C
Ss	React, Angular, Redux, Spring, Django, Flask, MongoDB, Git, MySQL, JSON, Kafka, Hadoop
Systems Engineering	Windows, MacOS, Linux, System Monitoring for anomalies, TCP, UDP, Load Balancing Systems

WORK EXPERIENCE

Software Engineer, *Goldman Sachs*   **Jun 2021-Jun 2022**

- Worked on developing a UI Platform for client investment management in Private Equity and Mutual Fund using Angular/React and Java spring. Utilized event-based communication to benefit from loose coupling and horizontal scalability.
- Restructured UI architecture to **improve response time** for better user experience using redux, subscribers, and more.
- Worked on integrating Apache Kafka and Hadoop along with an in-memory cache to develop a low latency infrastructure.
- Created Continuous Integration and Continuous Development Pipelines for GitLab and for managing packages for node modules to **run services on Linux systems**.
- Managed the MongoDB version update and database transfer for multiple services, needed due to demise of the current version.
- Participated in **production support and handled** the software monitoring systems.

Software Development Intern, *Goldman Sachs*   **May 2020-Jun 2020**

- Added new modules to the Goldman Sachs UI Library for **React** and Angular and upgraded components with better features.
- Built a web application with Angular and Java Spring with MongoDB as the database system, which automates the existing manual work of updating the internal client to account relations thereby saving a lot of time and effort.

Research Intern, *DA-IICT*   **Jan 2021-May 2021**

- Developed a Transformer and Convolutional Neural Network, a variation of the vision Transformer and created a new technique which creates a time series data from image to classify human emotion classifier on the FER dataset.
- Using Transfer Learning on a distributed system through CUDA, we trained the model and achieved state of the art accuracy.

PROJECTS

Client Communication Platform and Entity Redirection - Goldman Sachs

- Built an **algorithm in Python** that processes information extracted from a client question and formulates a mapping between the question and the Goldman Sachs Investment Advisor, allowing **Real Time Communication.**
- The algorithm Searches the internal data and documents from the keywords obtained from the question. Decides relevant documents and ranks the authors depending on the extent of matching with the question.

Property Exchange Web Platform – Analysis of the User Interaction

- Acted as Full Stack developer and created a web-based Desktop and Mobile adaptive application for property buying/selling where users can list their properties and get the opportunity to directly contact buyers.
- Included filters to capture area popularity, crime rate, etc. allowing buyers to choose the best property. Used node.js for server development and MongoDB as database system.

Closest Pair Algorithm Parallelization for High Performance Computing

- Parallelized the well-known Closest Pair algorithm for 2-Dimensional Plane using C++, OpenMp and multi-threading. It was developed to understand the nearest vehicles to predict and prevent a collision from happening.
- Took benefit of the divide-conquer approach and parallelized the unrelated sub-area processing to achieve higher speedup.

AWARDS

Goldman Sachs Accelerate Hackathon Winner   **May 2022-May 2022**

- Led a team of 10 engineers to develop a client interaction platform for client investment and advisory interactions. Won the best innovative idea for software design across India.