GARGI MAHASHAY

Final Year Undergraduate, Computer Engineering - TIET, Patiala

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EDUCATION

Thapar Institute of Engineering and Technology(TIET) CGPA: 6.72   (2020 - Present)

St. Joseph's Academy, Ghaziabad ISC XII Board: 72.0%   (2020)

St. Joseph's Academy, Ghaziabad ICSE X Board: 90.0%;'   (2018)

KEY PROJECTS

- **Traffix: Intelligent Traffic Control Solution**: *OpenCV and Machine Learning*   (Continuously Developing)
  - Enhancing traffic control using **genetic algorithms** for real-time green light adjustments, reducing inefficiencies.
  - At a **four-way, three-lane junction**, we use the **line length** at a **red light** and traffic volume through a green light to perform this strategy. To keep traffic flowing in both directions, algorithms change **light timing**.
  - Conduct an investigation or audit to ascertain if there have been any breaches or infractions.
- **File Sharing System**: *MERN stack*   (April'23 - May'23)
  - Provide a user-friendly interface for uploading files of various formats and sizes and offer ample storage.
  - Notify users about file updates, comments, or changes through email notifications or in-app alerts.
  - Enable users to preview files without downloading them, saving time and allowing quick assessment of content.
- **Fitness 360 Website:** *MERN stack*   (Jan'22 - Mar'22)
  - Allow users to create personalized profiles where they can track their fitness goals, and progress over time.
  - Provide a variety of pre-designed workout plans tailored for different fitness levels, goals, and preferences.
  - Provide nutrition tips, meal plans, and healthy recipes to help users align their diet with their fitness goals.
- **Drowsiness Detection:** *OpenCV and Machine Learning*   (Sept'22 - Nov'22)
  - Implemented a system that uses **facial landmarks and eye-tracking** to monitor driver alertness.
  - Tested extensively to optimize performance in various lighting and environmental situations.
  - Beeps when it detects that the driver is unconscious or their eyes are closed.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, HTML, CSS, MySQL, SQL, MongoDB, JavaScript
- **IT Constructs:** Data Structure and Algorithms, OOPS, OS and DBMS
- **Software and Libraries:** Numpy, Pandas, Matplotlib, Tensorflow, Pyautogui, YOLO, OpenCV, Microsoft Office
- **Soft Skills:** Leadership, Team Work, Effective Communication Skills, Problem Solving, Business Analytics Skills

ACHIEVEMENTS - CERTIFICATIONS

- **Engineering Virtual Program Goldman Sachs**
- **Software Engineering Virtual Internship Experience JPMorgan Chase Co.**
- **Certificate of Completion : Explainable Al with Python, Udemy**
- **Google Data Analytics Professional Certificate, Coursera**

RELEVANT COURSEWORK

Data Structures and Algorithms, Database Management Systems, Computer Networks, Operating Systems, Artificial Intelligence, Numerical Analysis, Practical Computing, Discrete Mathematical Structures, Design and Analysis of Algorithms, Computer Architecture and Organisation, Electronic Engineering, Machine Learning, Measurement Science and Technique, Network Programming, Probability and Statistics, Software Engineering, UI and UX Specialist, Database Engineer Mongo DB, Test Automation, Optimization Techniques, Theory of Computation, Microprocessor Based Systems, Computer Graphics, *Cloud and DevOps, *Compiler Construction, *Embedded System, *Humanities for Engineers *(currently pursuing)

POSITION OF RESPONSIBILITY

- **Member at GirlUP, TIET**: *Event Organizer*   (Nov'21 - Dec'21)
  - Orchestrated multiple events at the institute level for the entire college, including the Freshman girl's Welcome.
  - Facilitated multiple workshops for incoming students and assisted them in adjusting to college life.
- **Tryst IIT-Delhi and Entrepreneurship Event at IIM Bangalore** : *Campus Ambassdor*   (Dec'21 - Jan'22)
  - Conducted orientation and oversaw recruitment processes for the entire incoming class.
  - Acquired knowledge of the fundamental principles and operations of Tech and Entrepreneur.