Kirtan Matalia

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Education

Charotar University of Science and Technology - CGPA:8.96 (Till 6th sem)   **October 2021 - June 2025**
Bachelor of Technology in Computer Engineering   *Anand, Gujarat*

Technical Skills

Programming Languages: Python, Dart, C++, HTML/CSS, JavaScript, MySQL
Developer Tools: VS Code, Jupyter Notebook, Google Colab
ML Frameworks: PyTorch, Tensorflow

Experience

Atliq Technologies   **May 2024 - Present**
AI Engineer Intern   *Onsite*
- Working as an AI Engineer Intern, contributing to the development and deployment of innovative AI solutions. Collaborating with a team of experienced engineers to tackle real-world problems through data preprocessing, model training, and evaluation. Utilizing advanced tools and frameworks to build and optimize machine learning and deep learning models.

Projects

ExamEye | *Python, NodeJS, PostgreSQL, TypeScript, Prisma, ReactJS* | Demo   **November 2023**
- ExamEye is an **AI guardian** for secure online exams, offering **real-time vigilance, smart anti-cheating measures,** and robust features like **eye gaze tracking, multi-platform compatibility, browser lockdown, real-time alerts,** and **live chat support** which makes it much more worthy to use in various online assessments.
- Engineered advanced facial recognition algorithms and leveraged libraries such as **MTCNN** and **Face-Recognition** for accurate **face validation** and **monitoring**.
- Implemented **web sockets** for fetching real-time updates about all the activities of the examinees which comprise all types of violations detected during the proctoring and storing them in **exam logs** and providing a **comprehensive report** at the end of the examination.

Student Performance Index Predictor | *Python, IDE - VS Code* | GitHub Link   **December 2023**
- Created a user-friendly web application, accessible via the provided link: Link of the WebApp, to facilitate easy access to the predictive model. Designed the predictive model utilizing input features such as **Hours of Study, CGPA, Extracurricular Activities, Hours of Sleep,** and **Number of Question Papers solved**, achieving a forecasted student performance index with an accuracy rate of **95%**.
- Deployed the predictive model using **AWS Elastic Beanstalk** for scalable and reliable performance.

Achievements

- Selected in the **Amazon ML Summer School'24**.
- **Research Paper**: "Real-Time Sports Analysis: Integrating YOLO with Enhanced Feature Pyramid Networks for Volleyball and Cricket Activity Detection" accepted at the **3rd International Conference on Advances in Data-driven Computing and Intelligent Systems (ADCIS 2024)**.
- Clinched "1st position" among **140+ teams** at National-level hackathon named **HackSavvy'24** conducted by **MGIT, Hyderabad** representing **ExamEye** project.
- Received **consolation prize** at 36-hours National-level **PUCode Hackathon** conducted by **Parul University** representing **ExamEye** Project.
- **Led** a team to **victory** in the **36-hour CVMU Hackathon**, triumphing over **24 competing teams** and securing "1st place" in Category 4.
- Developed "**Exam Eye**," an **AI-powered** proctoring tool recognized with the prestigious "Silver Award" at **Makers Fest Vadodara 2024**, out of **76 teams**, for its outstanding contributions to innovation and technology.
- **Research Paper**: "SignShapeNet: A YOLO-NAS Approach for Efficient Shape Detection in Traffic Signboards" accepted at the **International Conference on Computing and Machine Learning**.
- **Championed** team to victory as **Team Leader**, securing the prestigious "Exceptional Performer Award" in "**Techathon 2.0**" organized by **Gateway Group Of Companies**. Ranking in the **top 5** out of **40+ teams.**
- Recognized as a Kaggle Notebook Expert, demonstrating expertise in data analysis and machine learning techniques on the Kaggle platform, with **40+ notebooks** ranked **917** out of **327812** users.
- **Led** the **Grand Finalist** team in the **Azadi Ka Amrit Mahotsav Hackathon-2022 SSIP-Gujarat**, showcasing exceptional teamwork and problem-solving skills; competed against **2000+ teams**, securing a spot among the top **500 finalists.**