Mufaddal Bharmal

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EDUCATION

Dwarkadas J. Sanghvi College of Engineering,   2021 – present
Btech in Artificial Intelligence And Machine Learning | CGPA: 8.81/10
- Honors in Immersive Technologies(ARVR) from Mumbai University
HSC : 94.5%   SSC: 89.2%

PROFESSIONAL EXPERIENCE

Flutter Developer Intern,   Nov 2023 – Mar 2024
Yatri Car Rental (A Unit of AARSAAR Technologies Private Limited) ✎
- Engineered mobile applications for driver and user interfaces, specializing in UI design, state management (Riverpod, Provider), and API integration.
- Integrated Firebase for secure user authentication and real-time data management
- Translated and converted Figma designs into screens daily, promptly resolving UI issues.
- Added functionalities, navigation, and made responsive screens.
- Debugged errors and exceptions to maintain optimal application performance.

Flutter Developer Intern, *Silva Stack Solutions* ✎   Jun 2023 – Sep 2023
- Contributed to 3 mobile app projects : Aplify, Mami, and EngineersConnect.
- Aligned UI with Figma designs, debugged errors and exceptions, and implemented additional widgets and features as required.

Campus Ambassador, *Corizo Company* ✎   Jan 2023 – Feb 2023
- Promoted and advertised the company within the campus, reaching over 100 students, raising awareness about courses and training offerings, and successfully attracting participation in 4+ online seminars and webinars.

PROJECTS

To-Do List Website (HTML, CSS, Flask), *Built a user-friendly To-Do List website incorporating user authentication* ✎
- Designed an innovative frontend with HTML and CSS, used Flask for backend, established secure user authentication, and integrated a calendar for task management and productivity.

Full Stack Note Application (React, Django, JWT, Choreo),
Built a secure and accessible web application for note creation and management ✎
- Designed the frontend with React and backend with Django, implemented JWT authentication, and deployed on Choreo for seamless and secure access.

AI-Drive Assist (YOLOv8, Google APIs),
Led the development of a smart driving aid, enhancing driver safety and convenience. Precision Recall rate of 94% .
- Engineered road-sign detection using YOLOv8, providing real-time alerts to drivers. Incorporated audio alerts and language translation using Google APIs to aid drivers in multiple languages.

Construct Catalyst (OCR, Semantic Analysis),
Created an automated document organization system with intelligent categorization capabilities. ✎
- Developed a web interface for document management with advanced OCR algorithms achieving 93% accuracy, and applied semantic analysis for intelligent categorization and customizable sorting.

Text-Translator(React Js) ✎
- A React JS app for seamless text translation between languages using API integration, featuring dark mode and light mode for a customizable user experience

Personality Detector(NLP , Python) ✎
- Developed a Python client-server chat app (client.py) with real-time messaging, color-coded outputs, and user authentication.
- The server (server.py) handled connections, broadcasted messages, stored chat in SQLite, and integrated personality detection using natural language processing with 16 classes, achieving 91% accuracy.

SKILLS

Languages — HTML, CSS, JavaScript, Python, C, Java, Dart , SQL, **Frameworks** — React, Django, Flask, Flutter, **Tools** — Git, GitHub, MLOps , DevOps, CI/CD, Figma , MS Excel , Firebase , AWS , Choreo , Docker, **Soft Skills** — Strong communication, effective presentation skills, excellent teamwork, solid problem-solving, strong leadership, creative thinking, effective time management.

PUBLICATIONS

AI Drive Assist: Enhancing Road Safety through Advanced Road Sign Detection and Driver Alerts, *Journal of Science* ✎
- The paper explores AI technologies for improving road safety with a Precision Recall rate of 94% using YOLO v8 and ResNet-50 CNN

POSITION OF RESPONSIBILITIES/ EXTRACURRICULAR ACTIVITIES

HOD Sports, *Trinity (College Fest)* ✎
- Secured sponsorships for sports events, managed 15 sports and athletic events with 300+ participants, coordinated venue bookings, crowd management, scheduling, logistics, and led a team of juniors for overall event organization.

NSS Volunteer ✎
- Participate in tree restoration and beach cleaning drive

DIJSCE Football Team, *Vice Captain*

COURSES

Flutter&Dart , Supervised Machine Learning , Advanced Learning Algorithms, *Udemy , Coursera , Coursera*