ZAINUDDIN FATAKDAWALA

Mumbai, Maharashtra | zain.fataks@gmail.com | [Github/Zainuddin](#) | [linkedin/Zainuddin](#) | [Website](#)

SKILLS

- Programming Languages: Python, JavaScript, Java
- Machine Learning: Supervised & Unsupervised Learning, Deep Learning (CNNs, RNNs), Model Evaluation, Feature Engineering
- Computer Vision: OpenCV, MediaPipe, ArcFace, Face Recognition, Image Processing
- NLP: Text Preprocessing, Language Modeling, Sentiment Analysis, Transformers (HuggingFace)
- Data Science: Data Analysis, Data Visualization (Matplotlib, Plotly), Pandas, NumPy, Scikit-learn
- Web Development: HTML, CSS, JavaScript, Streamlit, Flask, REST APIs
- Database: SQL, MongoDB, Firebase
- Version Control: Git, GitHub

EDUCATION

K. J. Somaiya Institute of Technology, Mumbai
Bachelor of Engineering in Computer Engineering
June 2022 - June 2026 (Expected) | CGPA: 9.09

St. Xavier's College, Fort, Mumbai
Higher Secondary Certificate (Science)
June 2020 - May 2022 | Percentage: 65%

PROFESSIONAL EXPERIENCE

Machine Learning Intern — AWGP Sanstha　　　　　　　　　　　　**July 2024 – December 2024**

- Developed a personalized recommendation engine, combining collaborative filtering and content-based methods for All World Gayatri Pariwar (AWGP).
- Integrated real-time feedback and adaptive learning to enhance recommendation accuracy.

AI Research Collaborator — Dental Disease Detection Project　　　　　　　　　**Jan 2025 – Present**

- Co-developing an AI-powered diagnostic subsystem in partnership with a practicing dentist to detect dental cavities, oral ulcers, and other mouth diseases from intraoral images.
- Built and fine-tuned deep learning models for image classification and disease identification.
- Automated report generation to assist clinicians in early diagnosis and improved patient care.

PROJECTS

Pehchan – AI-powered Missing Person Identification System　　　　　　　　　**Jan 2025 – Jun 2025**

- Designed a deep learning-based facial recognition pipeline using MediaPipe and ArcFace to identify missing persons from video footage.
- Delivered an end-to-end solution including detection, feature extraction, and identification.

AlumniVaarta – Alumni Contribution & Engagement Platform　　　　　　　　　**May 2024 – Aug 2024**

- Designed and developed an interactive web platform enabling institute alumni to contribute financially and through mentorship.
- Streamlined the donation and engagement process, enhancing alumni relations and increasing institute resources.

Krystal Company Website　　　　　　　　　　　　　　　　　　　**Dec 2024 – Jan 2025**

- Built a responsive and visually appealing website for Krystal, showcasing crystal engraving products and handling customer inquiries.
- Implemented best practices in UI/UX, optimized site performance, and ensured accessibility compliance.

ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Marathi, Gujarati
- **Certifications:** AWS cloud computing, NPTEL Data science in python
- **Activities:** Organized a national level hackathon "<LEVEL-UP 2K25>" for CODEAI club and also multiple events for IETE committee for events like Renaissance and Oscillations.