

Zainuddin Ali Asger Fatakdawala

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📍 Mumbai, India

in LinkedIn

🌐 <https://zainuddin-fatakdawala-portfolio.netlify.app/>

EDUCATION

Bachelor of Engineering in Computer Engineering (Honors in AI/ML)

University of Mumbai
Jun 2026 | Mumbai, India

CGPA: 8.97/10

Higher Secondary Certificate (Science)

St. Xavier's College, Fort, Mumbai
May 2022 | Mumbai, India

Percentage: 68%

SKILLS

Programming Languages: Python, JavaScript, Java

Machine Learning Frameworks: Supervised & Unsupervised Learning, Deep Learning (CNNs, RNNs), Transformers (HuggingFace), Model Evaluation, Feature Engineering

Databases: SQL, MongoDB, Firebase, Supabase (PostgreSQL)

Web Technologies: HTML, CSS, Streamlit, Flask

Tools: OpenCV, MediaPipe, ArcFace, Face Recognition, Image Processing, Text Preprocessing, Language Modeling, Sentiment Analysis, Data Analysis, Data Visualization (Matplotlib, Plotly), Pandas, NumPy, Scikit-learn, Tableau, Git, GitHub, MS Excel, MS Word, MS PowerPoint, SEO

LANGUAGES

English (Fluent), Hindi (Fluent), Marathi (Native), Gujarati (Native)

Work Experience

App & Web Developer at Krystal Company

Jul 2025 – Sep 2025 | Mumbai, India

- Designed and launched a responsive, visually appealing company website featuring an integrated stock portal for real-time inventory management, boosting sales by 10%.
- Streamlined business communication by replacing physical catalogues with a shareable website link, enhancing customer outreach.
- Executed web solutions prioritizing UI/UX best practices, site performance optimization, and accessibility compliance.

Machine Learning Intern at AWGP Sanstha

Jul 2024 – Dec 2024 | Mumbai, India

- Developed a personalized recommendation engine combining collaborative filtering and content-based methods for All World Gayatri Pariwar (AWGP).
- Implemented cosine similarity to filter and rank recommendations, significantly enhancing recommendation relevance and accuracy, leading to improved user engagement for All World Gayatri Pariwar (AWGP).

Volunteering & Leadership

Co-founder at CODEAI Club

May 2024 – Nov 2025 | Mumbai

- Led initiatives in AI and machine learning education and organized a major national-level hackathon "" with around 500 registrations from across India.
- Coordinated around 10 events, including a collaboration with Microsoft Reskill, enhancing learning and industry engagement.
- Coordinated multiple events for IETE Committee including Renaissance and Oscillations.

Author at Research & Publications

- Fatakdawala, Z., Doshi, H., Dash, A., Patil, P. (2025). A Bayesian Network to Model the Influence of Energy Consumption on Greenhouse Gases in Italy. In: Ghonge, M.M., Liu, H., Khan, M., Tran, T.A. (eds) Advances in Emerging Technologies and Computing Innovations. ICETCI 2025. Sustainable Artificial Intelligence-Powered Applications. Springer, Cham. https://doi.org/10.1007/978-3-031-92854-3_1
- Fatakdawala, Zainuddin, et al. "A Comparative Study of Music Recommendation Systems: Content-based and Collaborative Approaches." Grenze International Journal of Engineering & Technology (GIJET) 11 (2025).

Certifications

AWS Cloud Computing - Amazon Web Services Training and Certification

Mar 2025

Data Science in Python - National Programme on Technology Enhanced Learning

Aug 2023

Data Mining - National Programme on Technology Enhanced Learning

Mar 2025

Projects

AI Chatbot for AQI – Real-time Air Quality Index Monitoring

Jul 2025 – Aug 2025

- Built an AI-powered chatbot delivering location-based pollution data, health recommendations, and environmental insights using natural language processing and weather API integration for real-time updates.

Hostel Face Log – AI-powered Hostel Entry/Exit Management System

Jun 2025 – Jul 2025

- Engineered a face recognition system to monitor student and visitor movement in real time, leveraging a hybrid MediaPipe and ArcFace pipeline for improved accuracy even with subjects away from the lens. Developed a seamless camera integration and an interactive monitoring dashboard.

Pehchan – AI-powered Missing Person Identification System

Jan 2025 – Jun 2025

- Created a deep learning facial recognition pipeline with MediaPipe and ArcFace to identify missing persons from video footage, achieving 95% accuracy despite face obstructions.

AlumniVaarta – Alumni Contribution & Engagement Platform

May 2024 – Aug 2024

- Designed and implemented an interactive web platform enabling alumni contributions and mentorship, streamlining engagement and increasing institutional resources.

Text Summarizer – AI-based Document Summarization Tool

Jan 2024 – May 2024

- Developed an AI-based text summarization tool that generates concise, coherent document summaries using advanced natural language processing techniques.