

Anuj Zanje

Data Analyst | Python, SQL & Power BI | Machine Learning

Ahmedabad, Gujarat, India | anujzanje@gmail.com | +91 9624479810 | anujzanje1142.github.io/Anuj-Portfolio

SUMMARY

- M.Sc. Computer Science (AI/ML) student with a strong foundation in Python, SQL, Excel, Power BI, Machine Learning, and Data Analysis.
- Hands-on experience developing academic and independent projects using AI tools, including AI-assisted development, prompt engineering, data analysis, and machine learning techniques; skilled in using AI tools to improve problem-solving, research, and project development.
- Seeking a fresher or trainee opportunity to apply technical knowledge, gain real-world experience, and grow in a professional environment.

SKILLS

Programming & Analysis: Python, SQL, Statistical Analysis, Data Wrangling, Data Cleaning, Data Visualization, Machine Learning

Libraries: Pandas, NumPy, Scikit-learn, NLTK

Tools & BI: Power BI, Microsoft Excel (Pivot Tables, VLOOKUP/XLOOKUP), Google Analytics, MS Word, MS PowerPoint

PROJECTS

AI Chatbot & Admin CRM Dashboard for University Admissions 2026

- Built a multilingual (English, Hindi, Gujarati) Flask-based chatbot and admin CRM dashboard using NLTK preprocessing, a BERT fallback layer, and a TF-IDF + 4-model ML ensemble (SVM, Random Forest, Naive Bayes, Logistic Regression) to classify student intent across 101 courses.
- Designed the end-to-end system architecture, connecting live chat sessions to a staff dashboard for lead tracking, escalation, and analytics.
- Piloted the system across 250+ student sessions, achieving 93% answer accuracy and reducing routine staff query volume by approximately 50%.

Real-Time Object Detection and Counting System 2024

- Developed a real-time, multi-class object detection and counting system in Python using YOLOv8 and OpenCV on live webcam and video feed input.
- Integrated YOLOv8 via the Ultralytics framework with adjustable confidence thresholds, live bounding-box annotation, and automatic class-wise object counts; optimized the pipeline for low-latency performance.

RESEARCH

Intelligent AI Chatbot for Personalized Recommendations in University Admissions — Manuscript, Co-Authored with Faculty Advisor

Co-authored with Dikshan N. Shah, Assistant Professor, Kaushalya The Skills University

- Authored a research paper benchmarking the university chatbot against 24 prior academic and industry systems (2020–2026), identifying gaps in multilingual support, voice interaction, and personalized admission guidance in existing literature.
- Designed and ran a controlled evaluation protocol (hand-tagged test set; n=120 post-interaction survey) measuring answer accuracy, response latency, and student satisfaction; found the BERT fallback layer lifted intent-classification accuracy by 4–6% over pattern matching alone.
- Documented the dual-sided system architecture (student-facing NLP pipeline and admin CRM dashboard) across input, NLP, ML, data, and output layers; authored the comparative literature review and evaluation methodology sections.

EDUCATION

M.Sc. Computer Science (AI/ML), Kaushalya The Skills University, Ahmedabad Expected 2026

Bachelor of Computer Applications (BCA), Silver Oak University, Ahmedabad — GPA: 8.47/10 2024

10th & 12th Standard, Shriji Vidhyalay, Ahmedabad — 60.0% - 61.0% 2019–2021

CERTIFICATIONS

- Google Cloud — Introduction to Generative AI (Completion Badge, August 2026).

LANGUAGES

English, Hindi, Gujarati