

Preksha Dewoolkar

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AI & Data Science student skilled in machine learning and web development.

EDUCATION

Shah and Anchor Kutchhi Engineering College

Chembur, Mumbai

Candidate for Bachelor of Artificial Intelligence and Data Science

Expected Graduation: 2026

Cumulative CGPA: 9.2/10.0

TECHNICAL SKILLS & CERTIFICATIONS

- **Programming:** Python, JavaScript, Java, C, HTML, CSS
- **Tools:** Flask, React, Figma, Power BI, MySQL
- **Cloud:** AWS, Google Cloud, IBM Cloud
- **AI/ML:** Data Analysis & Visualization, Machine Learning
- **Certifications (Selected):** Gen AI Prompt Design (Google Cloud), Data Visualization (Tata & Forage), Cybersecurity Virtual Internship (Cisco), Getting Started with AI (BCG Forage).

RESEARCH & INNOVATION

Inventor - Indian Patent Application (Status: Filed)

A Tutor System and Method for Providing a Personalized and Adaptive Learning Experience

- Architected the core system integrating a Hybrid Recommendation Engine using SVD (Collaborative Filtering) and TF-IDF/Cosine Similarity (Content-Based).
- Integrated a Transformer-based model and Retrieval-Augmented Generation (RAG) for real-time, context-aware chatbot support.
- Implemented a Monitoring Module that uses K-Means Clustering to segment users and dynamically adjusts content difficulty based on quiz scores.

ENTREPRENEURSHIP & LEADERSHIP

BuildVerse-studio | Co-founder and UI engineer

- Co-founded an AI innovation studio specializing in MVP development and AI voice agents to accelerate startup growth.
- Applied expertise to build smarter, scalable solutions blending creativity with technology.

The Webnect | Design Lead

- Drove digital service delivery, specializing in client solutions involving Power BI Dashboards and AI Chatbot development.

Leadership: Content Team Head for Cogniscience Club; leading content creation and management initiatives.

KEY TECHNICAL PROJECTS

Toxic Comment Classifier & Moderator App

- Developed a multi-label NLP classification app deployed via Streamlit to analyze and moderate comments across six toxicity categories.
- Implemented custom model training, persistence (Pickle), batch processing, and detailed data visualization for moderation actions.

AI Customer Support Bot - MCP Server

- Developed a Model Context Protocol (MCP) server that delivers AI-powered customer support by integrating external LLM services.
- Architected the backend system for batch processing and user tracking using PostgreSQL and Docker.

Movie Recommendation System:

- Collaborative filtering model for personalized movie suggestions. (Jupyter Notebook)