Devashree Parikh
BTech in CSE

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RESEARCH EXPERIENCE

•Machine Intelligence, Computing and xG Networks (MICxN) Lab   *March 2025 – Present*
Undergraduate Researcher

– Currently working on improving adaptive numerology selection using multi-output Transformer and reinforcement learning models for 5G URLLC in Open RAN.

EDUCATION

•Ahmedabad University   *2023 - Present*
Bachelor of Technology in Computer Science and Engineering   CGPA: 3.42

PROJECTS

•ChatGPT Clone Using Google Cloud

Python, Vertex AI, TensorFlow, Flask, Google Cloud Run, PaLM API

– Created a chatbot leveraging Google Cloud technologies, delivering **93%** accuracy and improving response times by **30%**.
– Developed a web-based chatbot interface using Google Cloud's generative AI stack and deployed it on Cloud Run with scalable backend services.
– Integrated PaLM and Vertex AI for conversational logic, with TensorFlow-based components to enable custom intent classification.

•Forex Suggestion and Prediction Model

Python, TensorFlow, Keras, Pandas, NumPy, Scikit-learn, Requests, External Financial and News APIs

– Integrated sentiment analysis with sentiment scores from news data achieving **86%** prediction accuracy.
– Combined real-time financial data and news sentiment using LSTM-based models for directional currency movement predictions.
– Deployed a predictive pipeline integrating sentiment analysis and technical indicators (MACD, RSI, etc.) to forecast forex trends.

•Music Recommendation Model

Python, Pandas, NumPy, Scikit-learn

– Implemented a popularity-based recommendation engine that processes user engagement data to surface the top 10 trending tracks.
– Designed an item-similarity recommender using co-occurrence matrices and Jaccard similarity to deliver personalized song suggestions.
– Architected modular Python classes for training and inference, enabling easy extension and maintenance of multiple recommendation strategies.

•Interactive Speech Evaluator for Storytelling

Whisper, Streamlit, Python

– Built a speech-driven storytelling platform using Whisper for real-time speech-to-text and accuracy evaluation.
– Tracked pronunciation and timing metrics across story pages to provide actionable feedback and progress reports.
– Enabled engaging, story-based learning experiences through interactive UI and continuous speech monitoring.

•AI-Based Educational Content Generator

Gemini API, Python, spaCy, NLTK, Streamlit

– Built a Streamlit-based tool to generate and refine educational content by integrating Google Gemini API.
– Implemented NLP techniques to enhance readability and coherence, with modular bias detection and mitigation.
– Designed scalable architecture with separate content generation and refinement modules for easy extension.

•Prediction Model using RESTful API

FastAPI, Scikit-learn, Joblib, Pandas

– Developed a RESTful API using FastAPI to predict machine downtime based on sensor inputs (Temperature, Run Time).
– Trained and deployed a Decision Tree Classifier with endpoints for data upload, model training, and prediction.
– Handled real-time JSON requests for predictions and integrated confidence scoring using model probability outputs.

ACHIEVEMENTS

- Runner-up, Clash of Codes, university-level **Codeforces** Contest (C++).
  - –Secured 2nd place among 100+ participants in a month-long competitive programming event.
- Finalist in the Women in Engineering **WE** Program by **Google**.
- Ranked in the top four percent in the national level exam **JEE** Mains among over one million candidates.
- Selected as a finalist in the **Myntra** Hackerramp for presenting an AI-driver fashion-based solution.

TECHNICAL SKILLS

Languages : Python, C++, JavaScript, HTML+CSS
Libraries : Matplotlib, NumPy, Pandas, TensorFlow, Keras, Scikit-learn, PyTorch, OpenCV
Tools : MATLAB, Figma, Verilog, Tinkercad, AutoCAD
Soft Skills : Problem Solving, Adaptability, Presentation

EXTRACURRICULARS

•**Photographer and Video Editor,** Programming Club   *August '24-Present*

•**Logistics Head,** Astronomy Club   *January '25-Present*