

PARV PAREEK

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Education

Marwadi University, Gujarat

2022 – 2026

Bachelor of Computer Engineering, CGPA: 9.22

Vapi Public School, India

2006 – 2021

ISC (Class XII), 80%

Experience

Research Intern, IIT Indore

May 2024 – September 2024

Under Dr. Chandresh Maurya

Indore, India

- Worked on **speech models** and large language models (LLMs) to classify Alzheimer's disease patients based on speech.
- Reviewed and implemented **research papers**, applying novel techniques to real-world speech processing problems.
- Gained in-depth expertise in applying deep learning solutions to complex speech-related challenges.

Projects

Fraud Transaction Detection System — *Scikit-learn, Pandas, XGBoost* (GitHub) (Live Demo)

- Developed a robust **ETL pipeline** in Python (*pandas*) for transaction data cleansing, transformation, and feature engineering, enabling streamlined pre-processing.
- Conducted **EDA and data visualizations** to surface key patterns and perform **feature engineering**.
- Trained and fine-tuned an **XGBoost classifier** (with grid search **hyperparameter tuning**), identified the most influential features, and deployed a real-time demo via **Streamlit**.

Multitask BERT (SimCSE Framework) — *PyTorch, NumPy* (GitHub)

- **Fine-tuned** BERT using **contrastive learning (SimCSE)** on three downstream tasks: sentence similarity (SemEval STS Benchmark), paraphrase detection (Quora), and sentiment analysis (SST).
- Achieved strong performance: **93% accuracy** on STS, **88%** on Quora paraphrase detection, and **94%** on SST sentiment classification.
- Built **end-to-end** PyTorch pipelines for data loading, model training, and evaluation, optimizing for cross-task generalization.

Code Class DSA Tracking Platform — *React, Node.js, TypeScript, Express.js* (Link)

- Developed a full-stack DSA learning platform for 100+ students using **React, Node.js, and TypeScript** to streamline assignment tracking and access to practice problems.
- Built a dedicated **analytics dashboard** to visualize student progress and submission patterns.
- Designed and implemented a scalable **REST API** with **Express.js** and **Prisma ORM**, managing all data.

Technical Skills

Machine Learning: PyTorch, HuggingFace, W&B, scikit-learn, NLTK, NumPy, Pandas

Web Technologies: Express, React, PostgreSQL

Cloud Technologies: AWS, Docker

Languages: Python, C++, TypeScript

Achievements

- **Second Prize Winner** at an **AI + Blockchain** hackathon for building autonomous communication agents.
- **Academic Excellence:** Achieved **9.45 SPI** in 4th semester.
- **Runner Up** in **Scavenger Hunt** and **Tech Battle** coding challenges at MU Fest '23 and '24.
- Organized and hosted a **tech meetup** of **150+** developers as a Tech Team member of DeCodeCafe community.

Certifications

AWS Academy Graduate - AWS Academy Cloud Foundations

Nov 2024

Advanced Learning Algorithms by DeepLearning.ai

Credential ID: FPPE6H2CPDME