Priyvrat Modi

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Projects

Sentiment Analyzer github.com

- **Developed a multi-class sentiment analyzer** using a pre-trained **BERT model**, capable of classifying emotions like *Happy, Sad, Angry, Surprise, Not-Relevant,* and *Disgust*.
- **Fine-tuned the model with PyTorch**, handled data preprocessing using **Pandas**, and evaluated performance using **Scikit-learn**, while addressing challenges like **class imbalance** and **limited samples**.
- **Achieved 95%+ accuracy on the "Happy" class**, identified poor performance on rare classes like *Disgust*, and gained hands-on experience in real-world NLP issues like **dataset imbalance and model generalization**.

RAG (Retrieval-Augmented Generation) Colab.com

- Engineered a RAG tool from scratch (without LangChain) for PDF/TXT document-based Q&A.
- Used pre-trained embedding models with **cosine similarity** search for fast, accurate context retrieval.
- Integrated **Llama-2** with dynamic context injection and deployed via **Flask & Ngrok.**
- Handled **50+ documents** and reduced query response time by optimizing vector search.
- **Tools Used:** Python, Flask, Ngrok, Llama-2, Transformers, PyTorch, NumPy, Google Colab

Education

Amity University, Noida, Bachelor of Computer Applications 2023 – 2026

- CGPA: 8.22/10
- **Relevant Coursework:** Introduction to Data Science, Intro. to DBMS, Computational Statistics

C.R.B. Memorial Public School, Mainpuri, 12th Standard (Science) with CS 2023

- Cum. Percentage: 90%

C.R.B. Memorial Public School, Mainpuri, 10th Standard 2021

- Cum. Percentage: 91%

Certifications & Achievements

Introduction to Artificial Intelligence (AI) 2025

Introduction to Computers and Operating Systems and Security 2025

Skills

- **Languages:** Python, Java, JavaScript, SQL
- **Machine Learning & AI:** PyTorch, Transformers, Scikit-learn, BERT, Llama-2, NLP
- **Frameworks & Tools:** Flask, FastAPI, Spring Boot, React.js, AWS, REST APIs
- **Data Tools:** Pandas, NumPy, Matplotlib, Seaborn, Data Cleaning & Transformation
- **Other:** Data Structures & Algorithms, Google Colab, Git

Experience

Microsoft & Edunet, Artificial Intelligence Internship Link Remote
Apr 2025 – May 2025

- Acquired a strong foundation in AI through instructor-led training and self-paced modules on the Microsoft Learn platform, covering both theoretical and practical aspects of AI.
- Developed hands-on experience in **Supervised Learning** (e.g., linear regression, decision trees, classification) and **Unsupervised Learning** (e.g., K-Means, hierarchical clustering) for building and analyzing machine learning models.
- Explored applications of **Natural Language Processing** (tokenization, sentiment analysis, language modeling) and **Generative AI**, gaining insights into cutting-edge AI techniques for text and image generation.