

Vibhu Pratap

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Education

GLA University, B.Tech in Computer Science (Artificial Intelligence & Machine Learning) Jul 2022 – May 2026

- **Coursework:** Machine Learning, Deep Learning, Data Mining, Computer Vision, Operating Systems, DSA, DBMS, Computer Networks

Experience

Machine Learning Engineer Intern, Theax, Mangaluru June 2025 – August 2025

- Engineered a real-time face authentication app using Python, Flask, and JavaScript reducing verification latency to <200ms
- Implemented webcam-based face capture and JPEG image streaming, integrated with a facial recognition pipeline, achieving 85% accuracy.
- Built front-end in HTML/JS to allow live camera capture, and integrated backend for identity match via uploaded reference images.
- Designed with a focus on minimal latency, cross-browser access, and high accessibility without external dependencies.

Projects

Churn Prediction System | Deep Learning [GitHub Repo Link](#)

Tools: Python, ANN, TensorFlow, OpenCV, PIL, Streamlit, StandardScaler, One-Hot Encoding

- Built a TensorFlow-based ANN to predict customer churn using structured demographic and financial data.
- Trained over 30 epochs achieving 91.3% test accuracy and an F1-score of 0.88, validated using ROC-AUC and confusion matrix.
- Integrated preprocessing (One-Hot Encoding, StandardScaler), and used OpenCV & PIL for input quality improvement.
- Deployed via Streamlit with real-time user input and model inference within milliseconds.

IMDB Sentiment Analysis | Deep learning [GitHub Repo Link](#)

Tools: Python, TensorFlow, Keras, RNN, GloVe, Streamlit, Pandas, NumPy

- Built an RNN-based classifier to analyze movie reviews and categorize them as positive or negative.
- TensorFlow with GloVe embeddings was used for improved semantic understanding and generalization.
- Reached 89.2% accuracy and 0.87 F1-score on test data with clear decision boundaries.

Skills

Languages & Tools: Python, Java, HTML/CSS, Git, Bash, WordPress, Figma

ML Frameworks: PyTorch, TensorFlow, Keras, scikit-learn, Streamlit

NLP & CV: LangChain, Hugging Face Transformers, GloVe, Tokenization, OpenCV, PIL

Concepts: LLMs, Generative AI, Diffusion Models, Supervised Learning, Computer Vision, Sentiment Analysis

Deployment and APIs: Streamlit, Flask, AWS, MLOps, CI/CD

Design and Integration: Canva, Figma, Web UI/UX Tools

Software: Git, Jupyter, Flask

Soft Skills: Problem-solving, Rapid Prototyping, Collaboration, Communication

Certificates

- Generative AI with LangChain & Hugging Face – Krish Naik
- Artificial Intelligence with Python – CoinCent
- AWS Cloud Computing - Technical Guftgu
- Asia AI Odyssey Challenge – Microsoft
- Project Based Learning - GLA University

Achievements

Winner - CODE CRUNCH 2k24 (National Level Hackathon By IBM ICE)

Top 10 Finalist - Smart India Hackathon 2k24