

Apoorv Patidar

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Professional Summary

Computer Science undergraduate specializing in AI/ML with experience developing machine learning models using Python, TensorFlow/PyTorch. Skilled in backend development with Flask and FastAPI, containerization using Docker, and AWS deployment. Proficient in Git, REST APIs, and CI/CD workflows.

Technical Skills

Programming Languages: Python, C++, Java, Swift

MLOps & Cloud: AWS (EC2, CodePipelines, ECS, ECR, Elastic Beanstalk), Docker, GitHub Actions, CI/CD, Git, DagsHub

Web Frameworks & Databases: Flask, FastAPI, Streamlit, POSTMAN, MySQL, PostgreSQL, MongoDB

AI/ML: scikit-learn, TensorFlow, PyTorch, Hugging Face, LangChain, Matplotlib, MLflow, LLMs, Prompt Engineering.

Projects

CerebroScore - Student Score Predicting Platform

[Github](#)

- Developed and documented machine learning pipeline leveraging Python, scikit-learn, and pandas, reducing data processing time by 40% through optimized algorithms.
- Engineered Flask REST API, containerized with Docker, deployed on AWS Elastic Beanstalk, accelerating deployment workflows by 30% with detailed implementation notes.
- Set up CI/CD pipeline with GitHub Actions and AWS EC2, improving release by 50% and documenting workflows.
- Strengthened system reliability through comprehensive logging and monitoring solutions, minimizing debugging time by 40% while improving error tracking capabilities.

FloraNet - CNN Model for Multi-Class Flower Classification

[Github](#)

- Constructed convolutional neural network using TensorFlow/Keras for classifying five flower species, achieving 81% validation accuracy with EfficientNetB0 architecture.
- Raised model accuracy by 8.5% using transfer learning and adjusting model settings.
- Improved training speed with data changes (rotation, scaling) and image processing, reducing validation loss by 35%.
- Evaluated and reported model performance after comprehensive testing of CNN, VGG16, and EfficientNetB0 architectures with detailed hyperparameter analysis.

NeuroDigit - Deep Neural Network for Digit Prediction

[Github](#)

- Built CNN using TensorFlow for MNIST digit classification, achieving 97% accuracy with model design.
- Accelerated performance by 15% with data normalization and noise filtering for better prediction reliability.
- Increased training dataset by 150% using data augmentation like rotation, enhancing model generalization.
- Reduced overfitting by 30% and training time by 20% with hyperparameter tuning.

Education

Vellore Institute of Technology, Bhopal

Madhya Pradesh, India

• B.Tech - Computer Science and Engineering - **CGPA: 8.53/10.0**

Oct 2022 – Oct 2026

• **Specialization:** Artificial Intelligence and Machine Learning.

• **Coursework:** Operating Systems, Computer Networks, Database Management Systems (DBMS), Artificial Intelligence.

Certifications

- Applied Machine Learning in Python - Coursera
- Introduction to Generative AI & LLM - Google Cloud
- Gen AI Intensive Course - Kaggle

Achievements

- Solved 400+ LeetCode problems and contributed code to open source GitHub projects, working with algorithms, data structures, and collaborative software development.

Languages & Hobbies

Languages: English (Conversational Fluency), Hindi (Native), Spanish (Basic Fluency)

Hobbies: Gaming, Football, Sleeping