Praveen Kumar

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Objective

Driven and passionate AI & Machine Learning Engineer with hands-on experience in developing intelligent systems, NLP pipelines, and deep learning models. Seeking to leverage expertise in Generative AI, Voice Intelligence, and Data-Driven Applicationsto build real-world, high-impact solutions.

Education

NIMS University | 2022 – 2026 (Expected)
B.Tech in Artificial Intelligence and Machine Learning

- **CGPA: 7.0 Out of 7 Semesters. Currently in 8th Semester**
- **Key Coursework:** Machine Learning, NLP, Deep Learning, Data Analytics, Generative AI

Skills & Technologies

- **Programming:** Python, C.
- **AI/MLTools:** Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, NLTK, YOLOv8/YOLOv9, APIs(OpenAI, DeepInfra, Deepseek), Hugging Face, ML Flow, Docker, MySQL.
- **Domains:**Generative AI, NLP, Voice Processing, Deep Learning, Data Analytics, Forecasting
- **Others:**Git/GitHub, AWS (EC2, S3, CloudWatch), Data Visualization

Projects

🧠 **Eva – Personal AI Assistant (Generative AI + Automation) - 🔗 Github**

Collaborative Project (Co-developed with a teammate)

- Developed a Generative AI–based desktop assistant with voice commands and task automation
- Designed scalable architecture with isolated modules for TTS, STT, and NLP.

🎙️ **Online Shopping Intention Analysis – Machine Learning - 🔗 Github**

- Analyzed e-commerce user behavior data and performed data preprocessing and feature engineering using Python
- Built a machine learning classification model to predict online purchase intention using scikit-learn

🧠 **Brain Tumor Detection – YOLOv8 (Deep Learning) - 🔗Github**

Trained YOLOv8 & YOLOv9 models for brain tumor detection using medical imaging datasets.

- Achieved mAP@0.5: 0.90+, Precision ~0.89, Recall ~0.85.
- Compared model performance and visualized detection results, and deployed both on Hugging face.

💬 **Face Mask Detection (Machine Learning + OpenCV) - 🔗 Github**

- Built a Face Mask Detection system using CNN and OpenCV, achieving 95% accuracy on Kaggle dataset
- Implemented real-time face detection and classification to identify mask compliance

🏠 **House Price Prediction – Machine Learning - 🔗Github**

- Built a machine learning model to predict house prices using regression techniques on real-world housing data.
- Performed data preprocessing, feature selection, model training, and evaluation using MSE and R^2 metrics.

☁️ **Cloud Deployment using AWS (Cloud Computing)** Implemented EC2, S3, IAM, Auto Scaling, Load Balancers, and CloudWatch for monitoring.

Internship Experience

Machine Learning Intern (Remote) – Prodigy InfoTech (July 2025)

- Completed a 1-month internship focused on Machine Learning concepts and applications
- Developed and deployed multiple machine learning projects including House Price Prediction (Regression), Cats vs Dogs Classification (SVM), Hand Gesture Recognition (CNN), and Customer Segmentation (K-Means) using Python

Certifications

- **Technology Job Simulation| Deloitte(Forage), July 2025**
- **OpenCV Computer Vision Certification**
- **Machine Learning Crash Course (Google)**

Key Strengths

- Strong grasp of **data-driven problem-solving** and **AI system design.**
- Experienced with **end-to-end AI pipelines** — from data preprocessing to deployment.
- Passionate about **building voice-enabled, context-aware assistants** and **real-world AI solutions.**