Prakhar Jain

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Professional Summary

Python and AI/ML-focused developer with hands-on experience in building, training, and deploying machine learning models for real-world applications. Skilled in data preprocessing, model development, and performance evaluation, with practical exposure to computer vision and predictive analytics. Comfortable working across the full ML pipeline and turning ideas into reliable, user-ready solutions.

Education

Vellore Institute of Technology, Bhopal — Bhopal, Madhya Pradesh
B.Tech in Computer Science and Engineering, CGPA: **8.86/10** — October 2022 - July 2026

Technical Skills

- **Programming Languages**: Python, C++, HTML, CSS, MySQL.
- **Frameworks & Libraries**: Flask, Git, Pandas, Scikit-learn, Matplotlib, TensorFlow, Yolo ,Git.
- **Tools Platforms:** Excel, Canva(UI/UX), Figma, Adobe Express, Power Bi, Hugging Face, AWS Cloud

Projects

Accident Detection Using Yolo [Machine Learning] | GitHub

- **Technologies:** Python, OpenCV, YOLO (You Only Look Once), TensorFlow/pytorch, Numpy, Matplotlib.
- Developed a real-time accident detection system leveraging YOLO-based deep learning architecture to identify vehicular accidents in surveillance footage.
- Processed video streams frame-by-frame using OpenCV and deep learning models for precise localization and classification of accident scenarios.
- Conducted extensive performance evaluation using real-world datasets, achieving high accuracy with low false positive/negative rates and the model accuracy is approx. 90 percent.

Cropify: A Multimodal Predictor [Machine Learning] | GitHub

- **Technologies:** Python, Pandas, Flask, TensorFlow, Numpy, Matplotlib.
- Designed and implemented a multimodal prediction system that integrates independent models trained on soil and weather data for robust crop forecasting and both the model accuracy is above 85 percent.
- Preprocessed and analyzed datasets using Pandas and NumPy to derive meaningful insights and reduce noise in training data. Scalable web application using Flask to allow users to input parameters and receive real-time crop and yield recommendations.
- Provided data-driven insights to farmers for optimized crop selection and resource allocation.

Mental Health Support Chatbot [Machine Learning] | GitHub

- **Technologies:** Python, Flask, NLP, HTML, CSS, Groqcloud Open API, Lang Chain .
- Created a web-based AI chatbot capable of providing empathetic mental health support and real-time responses through human-like conversations.
- Utilized NLP techniques to analyze user sentiment and intent, enabling adaptive responses and emotional intelligence.
- Integrated GroqCloud Open API and LangChain for language modeling, dialogue management, and response generation. Deployed the system via Flask and a responsive frontend for accessibility across devices.

Certifications

- **AWS Certified Cloud Practitioner [AWS]**
- **Programming in Python** – Kaggle Learn (Certification)
- **Data Science and Machine Learning with Python** – Finlatics (Hands-on Training Certification)

Extracurricular Activities

- BitByBit club [VIT Bhopal University]: Participated in regular coding challenges and competitive programming contests to improve problem-solving skills. languages such as Python, C++, and Java.
- Microsoft club[VIT Bhopal University]: Contributed to planning and organizing technical workshops, coding bootcamps, and tech talks on Microsoft technologies.

Languages: Hindi (Native), English (Proficient)
Interests: Art & Craft, Badminton, Exploring Data