# Prakhar Jain

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

## Projects

**Accident Detection Using Yolo [Machine Learning] | GitHub**

- **Technologies:** Python, OpenCV, YOLO (You Only Look Once), TensorFlow, 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.

**Weather Prediction & Air Quality Analytics Dashboard| GitHub**

- **Technologies:** Power BI, Excel / CSV Data Sources, DAX (for calculated measures), Data Cleaning & Transformation, Data Visualization & Analytics, Python.
- Designed an interactive Power BI dashboard to visualize real-time and forecasted weather data including temperature, humidity, wind speed, visibility, and pressure.
- Built **7**-day weather forecast trend analysis using line charts to help users quickly understand temperature variations.
- Focused on business-friendly data storytelling, enabling non-technical users to interpret complex environmental data easily.

## 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.
- Possess strong communication, written, and leadership skills with the ability to collaborate effectively.

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