

# Prakhar Jain

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## Education

Vellore Institute of Technology, Bhopal

B.Tech in Computer Science and Engineering, CGPA: 8.86/10

Bhopal, Madhya Pradesh

October 2022 - July 2026

## Technical Skills

- **Programming Languages:** C++, Python, HTML, CSS, MySQL.
- **Frameworks & Libraries:** Flask, Git, Pandas, Scikit-learn, Matplotlib, TensorFlow, Yolo .
- **Web & Data Concepts:** API Integration, URL Routing.
- **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.

### Cropify: A Multimodal Predictor [Machine Learning] | [GitHub](#)

- **Technologies:** Python, Pandas, Flask, TensorFlow/PyTorch, Numpy, Matplotlib.
- Designed and implemented a multimodal prediction system that integrates independent models trained on soil and weather data for robust crop forecasting.
- 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.

### Colo Mobile Application [App Development] | [GitHub](#)

- **Technologies:** Flutter/React Native/Android Studio, Firebase for real-time database, Cloud Storage, REST APIs, Authentication services, Python.
- Spearheaded the development of a mobile application aimed at enhancing student collaboration and academic resource sharing.
- Implemented features like class note sharing, academic file organization, calendar integration, and discussion forums.
- Ensured smooth handling of large file uploads/downloads by optimizing cloud storage pipelines and reducing latency.

## 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