



# Prabhat Yadav

Roll No.:2022071049

B.Tech - Information Technology

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GitHub

LinkedIn

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	MMMUT, Gorakhpur	8.04/10	2022-2026
Senior Secondary	CBSE Board	93.8%	2021
Secondary	CBSE Board	94.4%	2019

## PROJECTS

### • Fraud Detection Model

*Individual Project*

[GitHub](#)

- Developed and evaluated ML models on a 6.3M transaction dataset to detect financial fraud with a ROC-AUC of 0.9903.
- Achieved 99.89% accuracy and a 43% fraud recall using Random Forest (compared to 20% with Logistic Regression).
- Engineered features and mitigated multicollinearity ( $VIF > 280$ ) to ensure model stability and interpretability
- **Tech Stack:** Python, Scikit-learn, Pandas, SHAP, Jupyter Notebook

### • Computer Vision for Smart Interaction

*Personal Project*

[GitHub](#)

- Built a custom **YOLOv8s** detection pipeline on a Roboflow Airbnb dataset for efficient offline training and accurate room-item recognition.
- Organized modular scripts (**train.py**, **test.py**, **app.py**) to streamline training, testing, and deployment workflows.
- Visualized training metrics—loss curves, precision-recall, confusion matrix—under **runs/detect** for performance analysis.
- **Tech Stack:** Python, ultralytics YOLOv8, Roboflow, numpy, av.

### • LangChain RAG-based Conversational Document Chatbot

*Personal Project*

[GitHub](#)

- Engineered a RAG pipeline using **LangChain** and **FAISS** to index PDF documents and retrieve relevant passages
- Integrated **GROQ** embeddings for context-aware chat and built a **Streamlit** UI with real-time messaging and PDF export.
- Architected a modular backend separating indexing, embedding, and response logic to enable rapid feature extensions and maintenance.
- **Tech Stack:** Python, LangChain, FAISS, GROQ/OpenAI API, Streamlit, FPDF2, python-docx, python-pptx, pandas.

## TECHNICAL SKILLS

- **Languages:** C, C++, Python, Java, HTML, CSS, JavaScript
- **Technologies:** Flask, React.js, MongoDB, SQL, Git
- **AI/ML Frameworks:** TensorFlow, PyTorch, OpenCV, Scikit-learn
- **Tools:** Visual Studio Code, GitHub, Postman, Jupyter Notebook
- **Operating Systems:** Linux, Microsoft Windows
- **Others:** Data Structures and Algorithms, Object-Oriented Programming, Competitive Programming, Natural Language Processing (NLP), Computer Vision

## ACHIEVEMENTS

- University Rank 1 at **Internal Smart India Hackathon 2023**
- Contributed to open source projects as a participant in GirlScript Summer of Code (GSSOC) 2024. [Certificate](#)
- Solved **1000+** problems on [Codeforces](#), [Codechef](#), [Coding Ninja](#), & [Leetcode](#) combined.
- Max Rating - **1611 (3 star)** on [Codechef](#), Solved **400+** Questions.
- Pupil (1206) at [Codeforces](#).
- **AIR 20** in NPTEL Computer Vision [Certificate](#)
- Among the **top 5%** in NPTEL Deep Learning [Certificate](#)

## LEADERSHIP & VOLUNTEERING

### – **Vice President**

*Coders and Developers Club*

June 2024 - Present

- \* Mentored 250+ beginners in Competitive Programming through sessions and doubt-solving on platforms like CodeChef and LeetCode, fostering a strong peer-learning environment. Curated contest questions, organized coding workshops, and boosted engagement through events aligned with current trends and skill levels.