

# UDIT PANWAR

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## EDUCATION

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### ABES Institute Of Technology , Ghaziabad

B. Tech - Computer Science and Engineering

CGPA – 7.0

2022 - 2026

Ghaziabad, Uttar Pradesh

## EXPERIENCE

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### Data Science Intern at CodeCraft Infotech

Jul 2025 – Aug 2025

Role – Data Science Intern

- Cleaned & analyzed **10K+ records**, boosting model accuracy by **15%**.
- Built ML & NLP models achieving **~82% accuracy** on classification tasks.
- Analyzed **5K+ social media posts** for sentiment trends; visualized **3 high-risk accident zones**.
- Contributed to Kaggle MAP competition, developing NLP models for student misconceptions.

## PROJECTS

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### Bill Splitter ([Link](#))

- Built a full-stack expense splitting app with a REST API backend supporting group management, multi-type expense splits (equal, exact, percentage), and a greedy debt-reconciliation algorithm (Splitwise-style) that minimises settlements to the fewest possible transactions. Integrated UPI deep-link QR code generation for instant in-app payments. Deployed backend on Railway with MySQL and frontend on Vercel with session persistence.
- **Tech Stack: Python, Flask, MySQL, REST API, UPI Payment Integration, HTMLJavaScript, Railway, Vercel**

### NyayaAI ([Link](#))

- Built a full-stack AI-powered legal document generator for India using RAG — FAISS vector search over 42+ curated Indian legal clauses with SentenceTransformer embeddings feeds context to Claude AI, reducing hallucinations vs. pure LLM generation. Supports 17 document types (NDA, Rental, Employment, Legal Notice) with English and Hindi/Devanagari output. Features per-clause AI explanation, legal risk detection, stamp duty calculator, and PDF/DOCX export. Deployed FastAPI backend on Render and React SPA on Vercel with JWT authentication.
- **Tech Stack: Python, FastAPI, Anthropic Claude API, FAISS, SentenceTransformers, RAG, React, ReportLab, python-docx, Render, Vercel**

### MediMark AI – An AI-Assisted Medical Image Annotation Tool ([Link](#))

- Built a Python-based web app for medical image annotation, integrating OpenCV and pre-trained YOLO/U-Net models to auto-generate bounding boxes and segmentation masks. Designed a simple annotation interface for doctors to review and adjust results, with final annotations stored in PostgreSQL for reuse in AI model training. Backend implemented with Flask to support AI-assisted labeling and secure data management.
- **Tech Stack: Python, OpenCV, TensorFlow/PyTorch, PostgreSQL, Flask, YOLO, U-Net, Git, Render**

## TECHNICAL SKILLS

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**Languages:** python ,C++, SQL

**Technologies/Frameworks:** HTML, CSS, Flask, OpenCV, Rest API, Scikit-learn, YOLO, U-Net, PostgreSQL, Git/Git Hub

**Developer Tools:** MyS ql, Railways, Tableau, Excel, MS Office, VS Code, PyCharm, Canva, Render

**Soft Skills:** Public Speaking, Team management, Leadership

## CERTIFICATIONS

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- Front End Web Development using React
- SQL- MySQL for Data Analytics and Business Intelligence from Udemy

## EXTRACURRICULAR

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- Participated in various hackathons and tech events, enhancing problem-solving and collaboration skills.
- Actively **involved** in and cricket(captain), developing teamwork, leadership, and strategic thinking.