

ANUGYA JAIN

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EDUCATION

Manipal University Jaipur Aug 2023 – Jun 2027
B.Tech. in Computer Science Engineering (AI & ML) — CGPA: 9.25/10 | 4× Dean's List, 3× Excellence Award Jaipur, India

EXPERIENCE

Research Intern — 5G/6G AI-Driven Networking May 2026 – Present
Indian Institute of Technology (IIT) Delhi New Delhi, India

- Selected as a Research Intern under IIT Delhi's **5G–6G Research Translation Project**, contributing to AI-driven network optimization research.
- Build ML and deep learning models — including **transformer-based traffic prediction systems** — for network slicing, resource allocation, traffic forecasting, and QoS optimization.
- Work with a **1,000-sample 5G dataset spanning 13 key KPIs** (latency, throughput, packet loss, PRB utilization, BLER, handover success).

Web Development Intern Aug 2025 – Oct 2025
NullClass Pvt. Ltd. (Remote) India

- Built **BookMySeat**, a full-stack movie ticket booking platform (Django, SQLite) with real-time seat allocation, Razorpay payment integration, and automated reservation timeout handling.
- Engineered relational database workflows, email notifications, and an admin analytics dashboard; deployed on PythonAnywhere handling **end-to-end booking and payment flows**.
- Implemented a REST API layer between the Django backend and a responsive Bootstrap frontend, supporting **3 concurrent user workflows**: browsing, booking, and payment simulation.

TECHNICAL SKILLS

Languages: Python, C, C++, JavaScript, SQL

Full-Stack & Web: Django, Django REST Framework, Flask, FastAPI, React.js, REST APIs, HTML, CSS, Bootstrap, AJAX

AI/ML & Computer Vision: PyTorch, OpenCV, YOLOv4, Hugging Face Transformers, LLMs, NLP, Deep Learning, RAG, Gemini API

Databases & DevOps: PostgreSQL, MySQL, SQLite, Docker, Git, GitHub, Postman, Grafana, Prometheus, Render, Vercel, PythonAnywhere, Cursor

PROJECTS

GoalSync — AI-Powered Enterprise Performance Management System May 2026
Python, Django 5, PostgreSQL, React.js, Chart.js, Gemini API, Render, Unicorn

- Architected a full-stack SaaS performance management platform supporting **3 enterprise user roles and 10+ integrated modules**, including goal tracking, KPI analytics, approval workflows, AI insights, notifications, and PDF reporting.
- Built secure RESTful APIs, role-based authentication, and PostgreSQL-backed data management, powering **interactive real-time analytics dashboards** for organizational performance monitoring.
- Integrated the Gemini API to automate performance summaries, **streamlining employee evaluation workflows** through AI-driven insights.

AI-Powered Misinformation & Deepfake Detection Platform Aug 2025
Python, Flask, React.js, EfficientNet-B0, OpenCV, Hugging Face Transformers, Whisper, Grad-CAM, LLMs, NLP

- Developed a full-stack multimodal AI platform for detecting manipulated video, audio, and text, achieving **87% deepfake classification accuracy** using EfficientNet-B0 with Grad-CAM-based explainable AI for visual decision interpretation.
- Engineered an end-to-end pipeline combining facial artifact detection, audio transcription, and LLM counter-narratives for **transparent authenticity reports**.
- Reduced manual deepfake verification effort by **5+ hours per video**; independently built and deployed the app, securing **Top 15 among 500+ teams** at HackSky'25.

Real-Time Object Detection with Audio Feedback Jan 2025 – Feb 2025
Python, Flask, OpenCV, YOLOv4, NumPy, pytsx3, Computer Vision

- Developed an AI accessibility assistant supporting **80+ object classes and 3 real-time vision modules** via YOLOv4, OCR, and color recognition.
- Built a Flask-based multimodal vision pipeline for real-time object localization and dominant color detection, **enabling hands-free interaction** through speech synthesis.

ACHIEVEMENTS

Patent Published (India) — Accessibility Assistant for Visually Impaired Jan 2025 – Aug 2025
Published a patent for an AI accessibility system (OCR, YOLOv4, ARKit/ARCore navigation, voice guidance) improving **independent mobility** for visually impaired users.

LeetCode — 396 Problems Solved 2024 – Present
Rank 298,722 | 100 Days Badge 2026 | Max Streak: 52 Days

- Solved **396 algorithmic problems (168 Easy, 196 Medium, 32 Hard)** in C++ across Dynamic Programming, Divide & Conquer, and Backtracking.

HackSky'25 — Top 15 of 500+ Teams Aug 2025
Secured a **Top 15 finish among 500+ teams** at MIT Bangalore with a solo-built, full-stack deepfake detection platform.