

Nehul Jain

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Profile Summary

- Software engineer with expertise in **backend development**, **machine learning**, and **cloud technologies** (AWS, GCP).
- Proven expertise in building scalable **data pipelines**, developing **REST APIs**, and delivering innovative **software solutions**.
- Recognized for **technical innovation**, **problem-solving**, and collaboration in high-impact projects and **hackathons**.

Education

Noida Institute of Engineering and Technology

Bachelor of Technology - Computer Science, Minor degree: Cloud Computing

Work Experience

- **ML & Backend Intern**, Upsurge Labs - Bengaluru, Karnataka, India Aug 2024 – Nov 2024
(Remote Internship)
 - Took **Cosmo (cosmoflow.ai)** from **development to production** (internal beta), focusing on **autonomous web navigations & image elements detection** using multiple open-source models.
 - Built **data pipelines & LLM workflows** & deployed them seamlessly with Cosmo's **user interface** on AWS.
 - Developed **REST API integration & database CRUD microservice blocks** for **LemmeBuild (lemmebuild.com)**, a low-code PaaS platform.

Projects

- **F1analyze** | (Python, Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Jupyter Notebook) | (Link)→
 - Built a **predictive model** for Formula 1 driver positions using regression, with extensive **EDA and feature engineering**, ranking 23rd among 76 participants and **outperforming 95% of 188 submissions** in a **Kaggle datathon**.
- **Adv. Library Management System** | (Node.js, TypeScript, Express, PostgreSQL, Prisma, Zod, Render) | (Link)→
 - Designed and deployed **RESTful APIs** for managing books, users, borrowing, and fines with **advanced analytics API endpoints**, connected with a **PostgreSQL database** using Prisma, and **deployed on Render** with secure authentication.
- **BabelFish.DB** | (Python, SQL, MongoDB, NLP, Langchain, Groq, Streamlit, Django) | (Link)→
 - Developed a **natural language interface** for conversational database queries, implementing **schema inference and query automation** to streamline complex query creation.
- **Medimate** | (Python, Django, JavaScript, Numpy, Pandas, Scikit-learn, SERP api, WebRTC) | (Link)→
 - Built & deployed **ML-based disease prediction**, **medicine availability**, and a vernacular AI health assistant chatbot.

Research Experience

- **Co-authored a research paper, Heart-Attack Analysis and Prediction Using Python (Unpublished)** - Implemented ML models (Logistic Regression, Decision Tree, Random Forest, KNN) **achieving 91.8% accuracy and 0.92 AUC-ROC**
- Applied advanced data preprocessing, feature engineering, and visualization techniques using pandas, NumPy, and seaborn

Awards & Achievements

- **First Prize Winner (Jugaad Hacks Hackathon, Feb 2024):** Led my team to victory by building an AI-powered spoken language tool for immersive language learning and practicing and winning 1st prize.
- **Runner-Up (Data-Vizard Hackathon, March 2024):** Awarded **2nd place among 40+ teams** for data-driven insights and exceptional visualization techniques.
- **Top 5%ile (Adobe GenSolve Hackathon, August 2024):** Recognized for innovative problem-solving and **clearing round 1** of such a competitive hackathon with 100,000+ participants.

Skills

- **Languages:** Python, Java, SQL, JavaScript, Typescript, Dart, C#
- **Cloud & DevOps:** AWS, GCP, Docker, Kubernetes, CI/CD, GitHub Actions
- **Frameworks & Libraries:** Scikit-learn, Seaborn, Keras, OpenCV, LangChain, TensorFlow, PyTorch, Django, FastAPI, Flask, Flutter, React, Node.js, Express