

RISHI RANJAN

Computer Science Engineering Student

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EXPERIENCE

Espyr

SDE Intern

📅 June 2025 – Aug 2025 📍 Remote

- Built scalable **multi-agent AI** system for educational assistance using LangGraph.
- Developed React.js UI and FastAPI backend with REST APIs, database integration, and cross-functional collaboration.
- **Tech Stack:** Python, React.js, LangGraph, FastAPI, REST API, Databases, Git.

SwapSo.io

Frontend Developer Intern

📅 Jan 2025 – Mar 2025 📍 Remote

- Built a responsive website using **Next.js** and UI frameworks, focusing on UI and module development, turning Figma designs into functional features.
- Contributed to software design, solution architecture, web content development, and workflow optimization. (**Tech Stack:** Next.js, Tailwind CSS, Figma)

ACHIEVEMENTS

- Cleared the **Pre-Qualifier (Round 1)** of TCS CodeVita 2024.
- Leetcode highest rating **1855**.
- **3rd Rank** at Hacker Hive-Ebullience'24, an annual Data Structure and Algorithms contest at NIET campus.
- Solved Over **500 Coding Questions** on different coding platforms and max rating of 1855 at [Leetcode](#) and participated in 10+ hackathons.
- **Co-Lead, Google Developer Groups – NIET** (2023–Present) Serving as Co-Lead for 2 years, driving campus tech initiatives and Google-supported events.

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript
- **Frontend:** HTML, CSS, ReactJS, NextJS, Streamlit
- **Backend:** NodeJS, ExpressJS, FastAPI
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Machine Learning AI:** NumPy, Pandas, Matplotlib, TensorFlow, Keras, MLOps/DLOps, Docker, CI/CD, LLMs, LangChain, LangGraph, Generative AI, Agentic AI
- **Version Control:** Git, GitHub, DVC
- **Other Tools Technologies:** Postman, REST APIs, AWS

COURSEWORKS

- Operating System
- Data Structure and Algorithms
- Artificial Intelligence and Machine Learning
- Object Oriented Programming
- Database Management System

EDUCATION

Bachelor of Technology (Computer Science and Engineering – 8 CGPA)

Noida Institute of Engineering and Technology

📅 2022 – 2026 📍 Greater Noida, UP

Higher Secondary - Grade A

SDSM School For Excellence

📅 2021 📍 Jamshedpur, Jharkhand

Secondary - 92.80 %

SDSM School For Excellence

📅 2019 📍 Jamshedpur, Jharkhand

PROJECTS

Adenocarcinoma Cancer Detection

- MLFlow | DVC | Tensorflow | AWS | TensorFlow | Dagshub | Vgg16-ImageNet(CNN) | Docker | AWS | Python | Streamlit
- Developed a VGG16-based chest cancer classifier with 91 percent accuracy, integrating MLflow, DVC, and Dagshub for MLOps. Containerized with Docker and deployed via Streamlit on AWS (ECR, EC2). Designed a scalable TensorFlow pipeline ensuring reproducibility. [Github](#)

Deep-Fake Detector for Photos and videos

- XceptionNet | Scikit-Learn | NLP | OpenCV | Python | Streamlit
- Deepfake detection platform using Xception-Net ML Algorithm for video/photo analysis and frame-wise classification, and a Streamlit UI . Chatbot support for user assistance. [Github](#)

Speech Emotion Recognition System

- RNN-LSTM | NLP | Python | Streamlit
- Developed a speech emotion recognition system using RNN-LSTM for feature extraction and classification. Implemented NLP techniques for audio processing and built a Streamlit-based UI for real-time emotion detection. [Github](#)

AppleDesk - RAG Platform

- NextJS| Groq | Tailwind CSS | Nodemailer | Rest-APIs

Built a platform to process multi-format files into AI persona-based summaries with real-time transcription (Whisper), summarization (Llama3), sentiment analysis, and an interactive QA chatbot. Developed with Next.js 15, Tailwind CSS, Node.js, and a modular microservices architecture. Integrated Groq SDK, Nodemailer, real-time progress tracking, and RTF export. [Github](#)