NIRANJAN ALASE

+91 8296284645 | Mail | LinkedIn | GitHub | LeetCode

Education

Indian Institute Of Information Technology, Kottayam — **2023 – 2027**
B.Tech in CSE (Major in Artificial Intelligence and Data Science) — *CGPA: 8.76/10*

Experience

AlgoUniversity (backed by Y-Combinator) — **Live Demo | Source Code**
Software Development Extern (Remote)

- Built a full-stack **online judge platform** (like LeetCode) with real-time code execution, submission, and evaluation.
- Used **Gemini API** for AI-based **resume analysis**, suggestions, and feedback.
- Added advanced features: **tag-based categorization**, daily heatmaps, and progress dashboard.
- Used **Docker** for backend containerization and deployed via **Render and Vercel**.
- Demonstrated strong **DevOps**, **system design**, and cloud-native architecture skills.
- Tech Stack: React.js, Node.js/Express.js, MongoDB. Mentored by engineers from **Google**, **Apple**, **Bytedance**, and **Alphagrep**.

Amity University – USRF 2025 — **Source Code**
Research Intern — *Noida, India — June – July 2025*

- Developed a **multi-label deep learning model (CNN-LSTM with attention)** for automated physiotherapy exercise recognition and rehab assessment.
- Integrated multi-sensor data (accelerometers, IMUs, sEMG) for real-time, objective patient monitoring.
- Collaborated on research documentation, technical reports, and presentations for internal review.
- Tech Stack: **Python**, **TensorFlow**, signal processing libraries; deployed models in healthcare-AI simulation.
- **Achievements**: Enabled **real-time patient feedback**, high-accuracy classification, and improved clinical decision support.

Projects

ChatNova - AI-Powered Chatbot — <u>Live Demo</u> | <u>Source Code</u>

- Built an **interactive AI chatbot** using the **Gemini API**, integrated with a **MERN stack** (MongoDB, Express.js, React, Node.js).
- Implemented **JWT authentication**, state management with **Redux**, and deployed on **Vercel**.
- Demonstrated **full-stack development**, API integration, and **cloud deployment**.

Technical Skills

Languages: Python (NumPy, Pandas, Matplotlib), Java, C++, JavaScript
Frameworks & Libraries: React, Node.js, Express.js, TensorFlow, Keras, Scikit-learn
Frontend: TailwindCSS, HTML, CSS, Bootstrap
Cloud & Databases: MongoDB, MySQL, AWS, Docker, Vercel, Netlify
Developer Tools: GitHub, VS Code, Postman, Jupyter Notebook

Certifications

- React Certificate - Complete Coding by Prashant Sir, 2024 (Link)
- Drone Workshop Certificate - Space Chase, 2024 (Link)
- Graphs Camp by Codeforces Master - Jan 2025 (Link)