

Nirvan Naveen

(+91) 8886954488
nirvan.naveenn@gmail.com
linkedin.com/in/nirvan-naveen
github.com/nirvan-08
nirvan-08.github.io/nirportfolio

Education

Woxsen University, Hyderabad

2022 - 2026 (*expected*)

B. Tech in Computer Science

- Relevant coursework: Virtualization, Data Analytics and Mining, Full Stack Development, Web Technologies, Data Structures, Cloud Computing

Officers Academy, Hyderabad

2020 - 2022

Intermediate

- Grade: A, Percentage: 85

The Hyderabad Public School, Hyderabad

2011 - 2020

Class 10

- Percentage: 83

Internship

Software Engineer Intern

Aug 2025 – Present

Innova Tech

- Working on backend and frontend features for scalable web applications.
- Collaborating with the engineering team to design, test, and deploy full-stack solutions.
- Contributing to API development, debugging, and performance optimization.

Projects

Multimodal RAG-Enabled LLM Assistant

Feb 2024 – Apr 2024

Woxsen University

- Built a local multimodal assistant capable of processing documents, images, and videos offline using Retrieval-Augmented Generation (RAG) and local LLMs.
- Tools: LangChain, Hugging Face Transformers, Visual Language Models, FAISS.
- Skills: Multimodal RAG integration, local LLM deployment, secure offline processing, image and video analysis.

SparkFeed: News Summarizing App

Sept 2024 – Dec 2024

Woxsen University

- Developed an AI-powered news aggregator with personalized summaries and predictive analytics.
- Tools: Streamlit, LangChain, Python, Firebase, Android SDK, Data Visualization libraries.
- Skills: Frontend and backend development, AI model integration, mobile-first UI/UX design.

Lung Cancer Detection using CNNs

Aug 2023 – Nov 2023

Woxsen University

- Built a deep learning-based system using CNNs to predict lung cancer malignancy from medical imaging datasets.
- Tools: Python, TensorFlow/Keras, OpenCV, Scikit-learn, Matplotlib, Jupyter Notebook.
- Skills: Medical data analysis, deep learning model building, model evaluation (accuracy, precision, recall).

News Aggregator Web App (Microfrontends)

2025

Personal Project

- Built a modular news app using microfrontends where each feature ran independently with its own build.
- Features: Mobile-responsive UI, personalized news feed (mock data), dark/light mode.
- Tech Stack: React.js (per microfrontend), Tailwind CSS, container app for integration.

WhatsApp Web Clone (Microfrontend + Responsive)

2025

Personal Project

- Simulated WhatsApp Web with responsive design and modular microfrontend architecture.
- Features: Chat UI, contact list, message bubbles, mobile view simulation.
- Tech Stack: React.js, Tailwind CSS, microfrontend architecture.

Back End – Protocol Upgrade Monitor

2025

Personal Project

- Developed a blockchain monitoring system for Ethereum, Polygon, and Arbitrum.
- Features: Event tracking, volatility/liquidity prediction, trading guidance.
- Tech Stack: Python/C++, Streamlit dashboard, blockchain APIs, sentiment analysis.
- Models: GARCH, ARIMA, BERT.

OrbitalTrack (Satellite Tracking App)

2025

Personal Project

- Built a 3D globe-based satellite tracker with AI-powered features.
- Features: Live satellite data, launch events viewer, AI chatbot, analytics dashboard, alerts.
- Tech Stack: React + MUI (TypeScript), MongoDB, APIs.

Certifications

Introduction to Artificial Intelligence (AI)

Nov 2024

IBM

- Covered AI fundamentals, machine learning basics, and real-world applications in sectors like healthcare and finance.

Advanced React

Feb 2025

Meta

- Deep dive into React concepts such as hooks, Context API, performance optimization, and modern component architectures.

Exploratory Data Analysis for Machine Learning

Mar 2025

IBM

- Focus on data cleaning, visualization, and feature engineering to enhance machine learning model performance.

Mathematics for Machine Learning: Multivariate Calculus

Oct 2024

Imperial College London

- Explained multivariate calculus concepts essential for backpropagation algorithms in deep learning.

Cloud Virtualization, Containers and APIs

Oct 2024

Duke University

- Introduced cloud computing principles, containerization using Docker, and RESTful API design for scalable deployment.

- Covered vector spaces, matrices, and eigenvalues essential for understanding machine learning algorithms.

Skills

- *Programming*: Python, C, C++, JavaScript, TypeScript, SQL
- *Web Development*: React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Streamlit
- *Machine Learning & AI*: TensorFlow, Keras, Scikit-learn, Hugging Face, LangChain
- *Tools & Platforms*: Git, Docker, Firebase, Jupyter Notebook, Linux, APIs
- *Languages*: English, Hindi, Telugu

Interests

- Football
- Full-Stack Web Development
- Applied Machine Learning
- Algorithmic Trading
- Software Development
- Blockchain & Decentralized Apps
- Space Technology & Satellite Tracking