Madhav Kumar Bojanki

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EDUCATION

Indian Institute of Information Technology — Manipur, India
Bachelor of Engineering in Computer Science – CGPA: 7.53* — 2022 — 2026

Narayana Junior College — Hyderabad, India
Higher Secondary Education – Percentage: 94.8% — 2020 — 2021

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, HTML/CSS
Frameworks: ReactJS, NodeJS, ExpressJS, RESTAPI, Bootstrap
Databases: MySQL, MongoDB, ChromaDB
Developer Tools: Git, Visual Studio, PyCharm

PROJECTS

NxtWatch (YouTube Clone) | *Node.js, Express.js, SQLite, JWT, RESTful API design.* Link
- Improved **personalized content management**, achieving **50% increase** in user interaction and **70% reduction** in re-login frequency through JWT session management.
- Optimized performance with **async loading states** and comprehensive error handling featuring retry mechanisms, improving load time by **55%** and achieving **maximum error recovery rate**.

Nxt Trends (E-commerce Web App) | *React.js, JavaScript, REST API, JWT, Context API* Link
- Designed **multi-parameter filtering** with category, rating, and search capabilities, reducing server load by **45%** and boosting engagement by **28%**.
- Optimized performance through **efficient state management** and responsive design, reducing re-renders by **65%** and increasing mobile engagement by **40%**

Twitter Clone API | *Node.js, Express.js, SQLite, JWT, RESTful API design.* Link
- I designed and built a secure backend using Node.js, developing **11 distinct** RESTful API endpoints to manage all core functionalities.
- This provided a complete and scalable backend service for any client application to consume. To protect user data, I implemented a robust **authentication system using JWT** for creating and validating user sessions.

RAG Chatbot (Role Based Access) | *Streamlit, FastAPI, ChromaDB, SentenceTransformers, LLaMA 3* Link
- Developed a Retrieval-Augmented Generation (**RAG) pipeline** through **LangChain** to couple document retrieval with LLM-based output
- Added **Ollama** support for executing lightweight local language models such as **LLaMA 3.1** to carry out efficient and private inference.

CERTIFICATIONS

- Git Training (**Score: 90%**), *Spoken Tutorial Project, IIT Bombay, 2025* Link
- MCP Mega Workshop (AI Workflows & Prompt Engineering), *NxtWave, 2025* Link
- NDSC certified Business Analytics (**Grade A**), *Internshala Trainings, 2025* Link
- Supervised Machine Learning - Regression and Classification, *DeepLearning.AI, 2025* Link

ACHIEVEMENTS

- Earned elite NPTEL certifications: Python (Gold, Top 5%)
- Got selected in Accelerator Programming Camp, being in the **top 3%** out of **3000+** students who applied.
- Coordinated with a 7-volunteer team as **PR Lead** during a Tech Fest "Ahouba 2.0" conducted by IIIT Manipur and maintained strong relationships with them throughout the year.
- Elected Captain of a student sports community of **500+** in the year 2024.
- Awarded for leading the team as **Team Captain** in a cricket tournament in the Asmita Inter IIIT Sports meet that saw the participation of **12+ teams**.