

# VISHNU V

## Full Stack Developer | AI/ML Engineer

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Chennai, Tamil nadu

### EDUCATION

#### Hindustan Institute of Technology and Science

Chennai | 2022– Present

Bachelor of Technology (B.Tech) CSE – Specialization in AI & ML

CGPA: 9.3/10.0

### EXPERIENCE

#### Vibrant Technologies Private Limited(Devmani Trade)

Chennai | May 2025 – Present

##### AI Automation Engineer Intern

- **Architected** and deployed a full-stack **Real-time BSE** connected investment management system using **FastAPI**, **PostgreSQL**, and **BSE SOAP APIs**, reducing manual operations by **70%** and accelerating investor onboarding by 3x.
- Developed a domain-specific **LLaMA3 assistant** with **RAG**, **VectorDB** optimized with **MCP**, evaluated using **LLM-as-a-judge**, delivering **90%** accurate insights, Implemented **AI agents using transformers** for real-time BSE fund updates.
- **Integrated AI** across the platform, including fund updates (**BERT**), portfolio management (**reinforcement learning**), market research (**transformers**), and goal planning (**regression**), increasing user engagement by 65%.

#### Jorim Technology Solutions Private Limited

Chennai | May 2024 – July 2024

##### Web Development Intern

- **Built and deployed** 3 responsive web applications using **React.js**, **TailwindCSS**, **JavaScript**, improving user experience by **30%** through modern UI/UX practices and mobile-first design. **Optimized codebase** for performance.
- **Integrated RESTful APIs** and managed backend data flow, reducing page load times by **40%** through effective **asynchronous calls and caching techniques**, cutting redundant logic by **25%** using **modular JavaScript**.
- Collaborated cross-functionally to enhance system design and database interactions, leading to a **20% increase in user retention**, leveraging **frontend-backend synergy** and database tuning.

### PROJECTS

#### MEDSPACE AI-Driven Healthcare Ecosystem - [LINK](#)

- Engineered an end-to-end healthcare **ecosystem**. Implemented features like **symptom checker**, **AI-based diagnosis**, **medicine recommendations**, and **secure EHR management** with **JWT authentication**, enhancing **data privacy** and reducing manual workflows by **50%**.
- Achieved **90%+ accuracy** in automated diagnosis by deploying **deep learning models VGG19, BERT, OpenCV** for medical imaging analysis( **MRI, CT, X-ray**).
- **Designed a scalable full-stack system** using **React.js, Flask, and SQL**, with **LLMs for NLP** and **Geoapify API** for **hospital discovery**, improving user interaction and system responsiveness.

#### ML Model Analyzer – AI-Powered Evaluation & Optimization Tool- [LINK](#)

- Created a AI analyzer tool for evaluating Machine learning models based on **accuracy**, **execution time**, and energy consumption, enhanced model interpretability and decision-making speed by **40%** through real-time **data visualization, dashboard generation**, and graphical insights using **matplotlib** and interactive **UI components**.
- Achieved automated evaluation of ML models by leveraging **LLaMA3, GenAI**, and **Hugging Face**, enabling analysis of confusion matrix, **accuracy**, and **energy consumption** with over **95%** automation efficiency.
- Implemented an **AI-driven chatbot interface** integrating **NLP** capabilities via **LLMs, LLM-as-a-Judge, Hugging Face**.

### SKILLS

**Languages & Libraries:** Python · Java · JavaScript · SQL · HTML/CSS · TensorFlow · Keras · PyTorch · Scikit-learn · OpenCV · NumPy · Pandas · Matplotlib · Seaborn · PostgreSQL

**Tools & Technologies:** AI/ML · Deep Learning · Generative AI · RAG · LLaMA · Large Language Models · Computer Vision · Natural Language Processing (NLP) · LangChain · RNN · CNN · MongoDB · Excel · Power BI · VectorDB · CI/CD pipelines

**Frameworks & Platform:** MCP · Flask · AWS · FastAPI · React.js · Node.js · Streamlit · Docker · Render · GoogleCloud · n8n

**Soft Skills:** Problem-Solving · Analytical Thinking · Team Collaboration · Communication · Adaptability · Time Management · Critical Thinking · Leadership · Continuous Learning

### CERTIFICATES & ACHIEVEMENTS

**Lead Co-ordinator – IBM Nexus Club:** Coordinated and managed IBM Nexus Club activities, overseeing event planning to foster a collaborative technical community.

**Hackathons:** Finalist in Infosys Global Hackathon 2025 held in Chennai; showcased innovative AI/ML solutions among top global teams.

**2nd Prize Technical Competition:** Secured 2nd prize at St. Joseph Engineering College, demonstrating strong problem solving and data-driven solution.