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EDUCATION

Vellore Institute of Technology   Vellore, IN

B.Tech Computer Science and Engineering with Specialization in Bioinformatics   *Aug 2021 – Jul 2026*

- **Concentrations**: Machine Learning & Data Science
- **Coursework**: Machine Learning, DSA, Database Systems, Statistics, Computer Vision

WORK EXPERIENCE

Farida Group   Ambur, IN

Software Developer Intern   *Dec 2025 – Present*

- Architecting a chatbot to streamline order tracking and production planning for manufacturing operations.
- Implemented RAG Architecture: Designed a Retrieval-Augmented Generation (RAG) pipeline enabling users to query live MySQL databases using Natural Language (NL-to-SQL).
- Developed AI Analytics: Created "Production Intelligence" modules to aggregate data and generate executive summaries on bottlenecks and delivery timelines

Code Casa   Remote

Machine Learning Intern   *Dec 2023 – Jan 2024*

- Engineered an object detection pipeline using YOLO and Faster R-CNN with TensorFlow, achieving high accuracy.
- Developed a stock price prediction model utilizing LSTM networks to analyze time-series data and forecast trends.

PROJECTS

FoliumScope - Plant Disease Detection [Website Link]

- Developed deep learning model using TensorFlow/Keras achieving 95%+ accuracy in disease classification.
- Built production-ready Flask application processing 1000+ images with automated disease detection.
- Optimized model reducing inference time by 40% and deployed scalable solution for multiple image formats.
- Collaborated with 3-member ADG team to deliver solution for agricultural hackathon, impacting 200+ participants.

CryNexa - AI-Powered Finance Platform [Project Link]

- Engineered secure backend using Supabase, Prisma ORM, and PostgreSQL handling compliance standards.
- Integrated Gemini AI to generate automated financial insights, reducing manual analysis time by 50%.
- Implemented multi-account tracking and real-time analytics with a responsive UI using Next.js and Tailwind.

INVOLVEMENT

Apple Developers Club, VIT   Mar 2022 – Sep 2023

ML Core Member

- Organized an "IDEATHON" hackathon and managed logistics for tech events, increasing student engagement.
- Mentored junior members in Machine Learning, providing technical guidance on project lifecycles.

CERTIFICATIONS

- **Microsoft Certified: Fabric Data Engineer Associate**: Microsoft (View Credentials)
- **Neural Networks & Deep Learning**: Coursera (View Credentials)
- **Applied Machine Learning in Python**: Coursera (View Credentials)

SKILLS

Languages: Python, Java, JavaScript, C++, SQL, HTML, CSS

Libraries: TensorFlow, Keras, spaCy, NLTK, PyTorch, NumPy, pandas, scikit-learn

Tools: Git/GitHub, VS Code, Linux, AWS, GCP, Vercel, Figma, PostgreSQL

Frameworks: Django, React, Next.js, FastAPI, Supabase