

## EDUCATION

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### Vellore Institute of Technology

Vellore, IN

*B.tech Computer Science and Engineering with Specialization in Bioinformatics*

*Aug 2021 – Jul 2025*

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

## WORK EXPERIENCE

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### Code Casa

*Machine Learning Intern*

*Dec 2023 – Jan 2024*

- Implemented image segmentation and object detection models using TensorFlow and PyTorch.
- Utilized spaCy for NLP tasks such as text pre-processing and entity recognition.
- Conducted research in stock price prediction, employing LSTM networks and time series analysis techniques.
- Developed object detection models utilizing state-of-the-art architectures like YOLO (You Only Look Once) and Faster R-CNN to detect and localize objects within images or video streams.

## PROJECTS

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### FoliumScope - Plant Disease Detection System [Website Link]

- Developed and trained deep learning model using TensorFlow/Keras achieving 95%+ accuracy in plant disease classification across 5+ plant conditions
- Built production-ready Flask application with computer vision pipeline processing 1000+ images with automated disease detection
- Optimized model performance reducing inference time by 40% and deployed scalable solution supporting multiple image formats (JPG, PNG, JPEG)
- Collaborated with 3-member ADG team to deliver complete 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
- Integrated Gemini AI for intelligent financial insights, automated analysis, and personalized recommendations
- Implemented advanced features including multi-account tracking, budget forecasting, and real-time analytics with responsive UI using Next.js and Tailwind CSS

## INVOLVEMENT

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### Apple Developers Club, VIT

*ML Core*

*Mar 2022 – Sep 2023*

- Organized and conducted an “IDEATHON” hackathon for junior core members to foster creativity, collaboration, and innovative problem-solving skills.
- Contributed to the success of the many events by organizing logistics, managing social media promotions, and coordinating with guest speakers, Mentored and assisted junior members in the Machine Learning domain, providing guidance and support for projects and initiatives.

## CERTIFICATIONS

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- **Neural Networks and DeepLearning:** View Credentials
- **Applied MachineLearninginPython:** View Credentials

## SKILLS

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**Languages:** Python, Java, Javascript, C++, C, SQL, HTML, CSS

**Libraries:** Tensorflow, Keras, Spacy, NLTK, Pytorch, Numpy, Pandas, Scikit

**Tools:** Google Colab, Github, VSCode, Jupyter Notebook, Linux, Canva, Figma.

**Technologies:** Django, ReactJS, DevOps, Supabase, PostgreSQL, Vercel, AWS, GCP, Machine Learning, FastAPI

**Soft Skills:** Teamwork, Time Management, Deliver results, Problem Solving, Adaptability, Project Management