

Vanippriya G

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AI/ML professional skilled in Python, Machine Learning, and Deep Learning, specializing in YOLO-based vision models, LLMs, and scalable data-driven solutions.

Skills

Programming Language: Python, SQL | **Visualization:** PowerBI, Tableau | **Libraries:** Pandas, NumPy, Scikit-learn, TensorFlow, Keras, Matplotlib, | **Machine Learning&AI:** EDA, Feature Engineering, Model Evaluation, Time Series Forecasting, CNN, LSTM,YOLO,LLM | **Tools&Deployment:** Git, GitHub, Microsoft Power BI, Streamlit,AWS

Projects

CNC Milling Performance Analysis and Fault Detection

- Built an LSTM-based deep learning model for CNC tool wear prediction, improving forecasting accuracy by 30% over baseline models.
- Boosted model training stability and convergence speed by 25% through data standardization and Normalization techniques.
- Enhanced generalization and reduced overfitting by 40% using dropout layers and optimized neural network architecture.
- Deployed the predictive model with Streamlit on **AWS EC2**, enabling real-time maintenance insights and reducing downtime risk.

Multiclass Fish Image Classification

- Preprocessed & augmented ~X k fish images with **TensorFlow's** ImageDataGenerator to ensure dataset robust
- Trained a CNN and fine-tuned five pre-trained models (**VGG16, ResNet50, MobileNet, InceptionV3, EfficientNetB0**); selected top-performer based on validation accuracy.
- Evaluated all models with **precision, recall, F1-score, and confusion matrices**; visualized performance trends via accuracy/loss curves.
- Deployed a user-facing Streamlit app enabling real-time fish species prediction with confidence scores; saved best model as .h5.

Experience

AI/ML Intern — Careyu Automation

Oct 2025 - present

- Built **YOLO-based computer vision** models for real-time object detection and annotation tasks
- Conducting **data preprocessing and feature engineering** to enhance model performance and accuracy.
- Fine-tuned **Large Language Models (LLMs)** for automation and intelligent data generation use cases.

Dealing & sales executive – Goodwill wealth management

Oct 2020 – Aug 2021

- Assisted clients with account opening, trade execution, and compliance documentation.

Education

IIT-M GUVI-Advanced Programming Professional and Master Data Science

Mar2025 – Jun2025

Bachelor of Engineering (ECE)

Aug2015 – Apr2019

Certificates

Big Data: Zeyobron | **AI Fundamentals:** Guvi | **Machine Learning:** Guvi | **Time Series Forecasting:** Guvi