DEVISETTY LAKSHMI SRINIVAS

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SUMMARY

M.Tech candidate in Artificial Intelligence and Machine Learning (December 2026) seeking an entry-level AI Engineer or Data Scientist role. Experienced in building and evaluating machine learning and deep learning models in Python and PyTorch, with project work in computer vision, graph neural networks, and natural language processing.

EDUCATION

M.Tech, Computer Science & Engineering (AI & ML), Amrita Vishwa Vidyapeetham 2024 – 2026
Expected graduation: Dec 2026 | Specialization in Artificial Intelligence and Machine Learning

B.Tech, Computer Science & Engineering (AI), Parul Institute of Engineering & Technology 2020 – 2024
CGPA: 7.73 / 10

TECHNICAL SKILLS

Programming Languages: Python, C, C++, Java, Bash, SQL

Machine Learning & Deep Learning: PyTorch, PyTorch Geometric, Hugging Face Transformers, Captum, scikit-learn, OpenCV, Model Evaluation, Fine-tuning, Transfer Learning, CNNs, GNNs, Computer Vision, NLP, Explainable AI, Object Detection

Data Science & Analytics: pandas, NumPy, SciPy, statsmodels, Matplotlib, Seaborn, Data Preprocessing, Exploratory Data Analysis (EDA), Feature Engineering, Statistical Analysis, Hypothesis Testing, Data Visualization, Survival Analysis

Databases & Tools: MySQL, MongoDB, Git, GitHub, Jupyter Notebook, Google Colab, Linux

Core Computer Science: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Algorithm Design

PROJECTS

Connectome Explanation Benchmark (CXB), M.Tech Dissertation | In Progress 2026
Python, PyTorch, PyTorch Geometric, Captum, nilearn, scikit-learn, ABIDE I

- Built a benchmark that plants a known connectivity effect into real ABIDE I fMRI connectomes (848 subjects, 19 hospitals), so model explanations can be scored against an exact ground truth.
- Showed that a train-only scanner shortcut raises the scanner share of the top explanation edges by up to 0.43 while test accuracy falls by only 0.03–0.07.
- Proposed counterfactual site training (CF-Site): +0.15 AUPRC in disease recovery over plain training, matching the best ComBat variant without harmonizing new-site data.

LLM Response Preference Prediction, Chatbot Arena (Kaggle) | In Progress 2026
Python, pandas, scikit-learn, Matplotlib, Seaborn

- Predicting human preference (A / B / tie) on 57K Chatbot Arena battles across 64 LLMs, evaluated on log loss.
- Analyzed per-model win/loss/tie rates, fixed a pipeline bug that broke Kaggle scoring, and shipped a validated baseline; now adding TF-IDF text features.

SMOTE-Enhanced Multi-View Deep CNN for Mammogram Classification, M.Tech Thesis 2026
Python, PyTorch, CLAHE, SMOTE, scikit-learn, CBIS-DDSM

- Designed a 2.24M-parameter multi-view (CC + MLO) CNN for benign/malignant classification on CBIS-DDSM (1,566 patients), with stratified patient-level 70/15/15 splits.
- Engineered a SMOTE-based view-completion method that synthesizes missing mammographic views via donor-based convex interpolation, growing complete four-view cases from 105 to 1,223.
- Ran a three-tier experiment (baseline, view completion, hybrid class balancing); the final tier achieved 84.02% accuracy, 92.86% recall, 85.25% F1 score, and 93.24% AUC.
- Built the complete pipeline: CLAHE enhancement, class-imbalance handling, BCE-with-logits training, learning rate scheduling, and early stopping.

Road Object Detection using YOLOv3, Intel Unnati Industrial Training 2023
Python, PyTorch, OpenCV, NumPy, Matplotlib, Google Colab

- Implemented YOLOv3 (Darknet-53) in PyTorch, including a config parser, pre-trained weight loader, and detection layers.
- Wrote the post-processing pipeline: bounding box decoding, IoU, confidence thresholding, and non-maximum suppression.
- Ran inference on 416×416 Indian Driving Dataset (IDD) road images and timed it against an OpenCV DNN pipeline.

CERTIFICATIONS & ACHIEVEMENTS

- Intermediate Deep Learning with PyTorch, DataCamp | Power Platform Fundamentals, Microsoft | Crash Course on Python, Google
- TCS CodeVita Season 11 — Global Rank 4,774.
- Technical blog: 7 articles on machine learning, local LLMs, and Linux systems at zerobyte57.github.io/blog