PERARAPU LAKSHMI SRI

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EDUCATION

B.Tech in Computer science and Engineering, Amrita Vishwa Vidyapeetham — Expected 2025
Senior Secondary Aditya Junior College - 96.5% — 2021
Secondary Sama Public School - 10.0 — 2019

SKILLS

- **Technical interest:** Database Management Systems, Artificial Intelligence, Machine Learning, Deep Learning
- **Programming:** Python (Intermediate), Java, SQL, HTML/CSS, MATLAB
- **Tools/Packages:** Visual Studio Code, Git, Notion, OS(Windows), TensorFlow, Keras, NLTK

INTERNSHIP

SKXYWTF, Phoenix, Arizona, USA (Remote) — July. 2024 – October. 2024
AI Engineer Intern

- Developed and tested multiple trading strategies for the U.S. stock market using Alpaca, focusing on bullish and bearish trends.
- Analyzed candlestick patterns and market data to optimize trading decisions and improve profitability.

PROJECTS

Malayalam Regional Dialect Recognition - Link

- Compiled and analyzed 18.2 hours of audio recordings in major Malayalam dialects (Kozhikode, Thrissur, Trivandrum and Kottayam).
- Utilized YAMNet for multiclass dialect classification, establishing a baseline accuracy of 66.45%.

Time Series Data Analysis Using Deep Time - Link

- Conducted time series analysis on the "gold price USD" dataset using 'deep time' Python library.
- Employed dimension reduction, clustering, and Markov models to identify anomalies and predict gold price trends.

Multilingual Image Captioning Using VGG-16 and GRU Decoder - Link

- Developed a multilingual captioning system with VGG-16 for feature extraction and GRU decoders for English, Hindi, and Malayalam.
- Created a parallel corpus of 40,000 images with AI4BHARAT's IndicTrans2, checked captions with BLEU score.

PUBLICATIONS

- Perarapu, L. S., Madhumita, M. R., Madhuraj, T., Goel, A., Aadhithya, A. A., & Soman, K. P. (2024).**ViT-PCOS: Vision Transformer for Automated Polycystic Ovary Syndrome Detection**. In 4th International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET) 2024, Patna, India.

EXTRA-CURRICULAR ACTIVITIES

- **ML BOOTCAMP** Participated in a Machine Learning Bootcamp at Amrita School of AI, teaching 500 first-year CSE-AI and AI-DS students. Covered foundational to advanced ML concepts, including Python, deep learning, generative AI, LangChain, and neural networks.