

# NAREN SUNDAR L

Coimbatore, India

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## Education

<b>B.Tech in Computer Science and Engineering (Artificial Intelligence)</b>	<b>CGPA: 8.48</b>
<i>Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Coimbatore</i>	2023-2027
<b>AISSE/ Grade 12)</b>	<b>88.4%</b>
<i>The Vijay Millennium Senior Secondary School CBSE, Dharmapuri</i>	2022-2023
<b>AISSE/ Grade 10)</b>	<b>91.8%</b>
<i>The Vijay Millennium Senior Secondary School CBSE, Dharmapuri</i>	2020-2021

## Technical Skills

**Programming Languages:** Python, C, C++, Java, JavaScript

**Core CS Concepts:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Computer Networks, Database Management Systems, Software Principles

**Frameworks & Libraries:** React.js, Next.js, Node.js, Express, Flutter, NumPy, Pandas, SciKit-learn, TensorFlow, PyTorch, Hugging Face Transformers

**Databases:** MySQL, MongoDB, PostgreSQL

**Cloud & Tools:** Microsoft Azure, Google Cloud Platform (Compute, Storage, APIs), Git, Docker

## Projects

**CodeProctor – Full Stack Code Evaluation System** | *Next.js, TypeScript, PostgreSQL, Docker* [GitHub](#)

- Launched a scalable code evaluation platform supporting **250+** active users across **8** departmental sections, by implementing a robust **RBAC** system and problem management.
- Improved execution reliability and response latency by **33%**, verified through judge performance logs, by architecting a **Docker-based** isolated judge and **Next.js 15** frontend with **SSR optimizations**.
- Drove department-level adoption across **4** academic departments and **12** courses, by designing efficient workflows that reduced manual grading time by **40%** for **6+** active contests.

**ABSA using BERT with LSTM** | *PyTorch, Hugging Face Transformers, BERT-base, LSTM, Scikit-learn* [GitHub](#)

- Engineered an end-to-end **Aspect-Based Sentiment Analysis (ABSA)** pipeline leveraging **BERT-base**, **BERT + LSTM**, and **BERT + Custom Attention** architectures to perform fine-grained sentiment classification at the **aspect level** on real-world review data.
- Processed and benchmarked **SemEval-2014 ATSA datasets**, supporting 4-class sentiment classification and standardizing sentence–aspect representations for model training.
- Implemented a **custom data loading and preprocessing framework** to handle sentence–aspect pairs, enforce deterministic data splits, and ensure

**Statistical Load Forecasting System** | *Python, SARIMA, Prophet, Pandas, NumPy* [GitHub](#)

- Conducted a comparative study of statistical load forecasting models by designing and evaluating **SARIMA** and **Facebook Prophet** on large-scale hourly electricity consumption data (**PJM Interconnection**), addressing real-world grid planning and energy management challenges.
- Engineered a robust **time-series preprocessing pipeline** involving missing-value imputation, **Z-score** and **IQR-based outlier detection**, and seasonality preservation to ensure model stability on non-stationary, real-world power system data.
- Benchmarked forecasting accuracy and scalability using **MAE**, **MSE**, **RMSE**, and **MAPE**, demonstrating Prophet’s superior accuracy and computational efficiency over SARIMA, and providing actionable insights for **model selection in production-grade load forecasting systems**.

## Certifications

– **The Complete Web Development Bootcamp (Udemy 2025)**

*Skills Gained: HTML, CSS, JavaScript, Node.js, Express.js, MongoDB, React, PostgreSQL*

Link: <https://www.udemy.com/certificate/UC-7ef6e36b-eb48-440d-a263-3b2587446310/>

## Publications

– **Statistical Load Forecasting in Power Systems: A Comparative Study of SARIMA and Prophet Models.**

*CE2CT-2025 IEEE, Graphic Era Hill University.*

DOI: <https://doi.org/10.1109/ce2ct64011.2025.10941664>