



THANUSRI AENUGULA

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Education

Texas A&M University, College Station, Texas

Aug 2025 - Dec 2026

Master of Science in Data Science

Courses: Data Mining, Statistics, Mathematics for ML, Machine Learning, Deep Learning, Reinforcement Learning

Sri Sivasubramaniya Nadar College of Engineering, India

July 2021 - June 2025

Bachelor of Engineering in Electrical and Electronics Engineering

CGPA: 8.72/10

Courses: Data Structures, Probability and Statistics, Introduction to Data Science, Machine Learning, Artificial Intelligence

The University of Texas at Austin – McCombs School of Business (Remote)

Aug 2023 - Aug 2024

Post Graduate Program in Data Science and Business Analytics – Professional Certification

CGPA: 3.75/4

Courses: SQL, Predictive Modeling, Data Visualization, Time Series Forecasting, Marketing and Retail Analytics, Financial and Risk Analytics

Technical Skills

Languages

Python, C++, SQL, HTML, CSS, JavaScript

Tools

PowerBI, Tableau, Git, Docker, VSCode, Azure DataBricks, Azure Machine Learning

Libraries

TensorFlow, Pandas, Numpy, PyTorch, PySpark, Hugging Face

Soft Skills

Time Management, Leadership, Team Work, Problem Solving, Analytical Thinking

Experience

Daimler India Commercial Vehicles (BharatBenz) | Research & Development Intern

Jan 2025 - Jun 2025

Worked on two projects with the Data Driven Engineering team, building machine learning-based tools for the Functional Testing team as internal clients to streamline vehicle testing processes.

- Developed a statistical twin for dynamic brake testing systems using historical brake performance data and machine learning models.
- Achieved an R^2 value of **0.94** for Mean Fully Developed Deceleration and **0.93** for Stopping Distance prediction.
- Delivered a product that enabled the Functional Testing team to optimize and pre-screen vehicle performance, reducing testing time by **80%**.
- Analyzed telematics and Dealer Management Service (DMS) data to develop pipelines for real-time monitoring, enhancing the driving patterns analysis, and fleet optimization using Azure Databricks.

Shrimitha Energy Solutions Private Limited | Data Science Intern

Sept 2024 - Nov 2024

- Developed hybrid models to predict the Remaining Useful Life and State of Charge of batteries and achieved an R^2 value of **0.97** using **CNN-LSTM-XGB** model.
- Analyzed over 38+ batteries, reducing failure prediction time by **25%**, enhancing operational decision making.
- Delivered the models for the company, enabling battery performance monitoring and maintenance planning.

Research and Projects

Predictive Maintenance of Wind Turbine Systems using AI — Research Project [GitHub]

Aug 2024 - Apr 2025

- Submitted a paper to the **Elsevier** Engineering Applications of AI journal that presented hybrid methods to predict the Remaining Useful Life of wind turbine systems.
- Designed an interactive PowerBI dashboard to effectively monitor and visualize data fluctuations and changes to act on changes more efficiently.
- Built different hybrid models to predict the Remaining Useful Life of the wind turbine systems out of which **CNN-LSTM-GRU** performed really well with a coefficient of determination of **0.91**

Behavioural Churn Modeling [GitHub]

Jul 2024 - Aug 2024

- Increased churn prediction accuracy to **98%** using the **Gradient Boosting** model, enabled targeted retention strategies, and lessened churn by **15%**
- Improved precision of churn prediction, minimized false positives, and optimized spend on retentions.
- Validated model consistency with cross-validation and got less than 10% difference between training and testing metrics.

Sales Analysis and Forecasting Behavioural Patterns [GitHub]

Mar 2024 – Apr 2024

- Analyzed wine sales data through data cleaning, visualization techniques, and time series decomposition, and improved forecasting accuracy by **20%**.
- Undertook a comparative analysis of 7 forecasting techniques; **Triple Exponential Smoothing** performed best with a lower RMSE value of 317.43.

Honors, Leadership and Community Involvement

- Achieved first position in the **inter-college regional-level** singing competition and represented at the **national-level**.
- Led the analytics team as **Event Analytics Head** for Invente, the annual technical fest at SSN College.
- Serving as **Coordinator** of the Aggie Data Science Club, organizing hands-on projects, workshops, and mentorship programs.