

# THANUSRI AENUGULA

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## Education

<b>Texas A&amp;M University, College Station, Texas</b> <i>Master of Science in Data Science</i>	<b>Aug 2025 - Dec 2026</b>
Courses: Data Mining, Statistics, Mathematics for ML, Machine Learning, Deep Learning, Reinforcement Learning	
<b>Sri Sivasubramaniya Nadar College of Engineering, India</b> <i>Bachelor of Engineering in Electrical and Electronics Engineering</i>	<b>July 2021 - June 2025</b> <i>CGPA: 8.72/10</i>
Courses: Data Structures, Probability and Statistics, Introduction to Data Science, Machine Learning, Artificial Intelligence	
<b>The University of Texas at Austin – McCombs School of Business (Remote)</b> <i>Post Graduate Program in Data Science and Business Analytics – Professional Certification</i>	<b>Aug 2023 - Aug 2024</b> <i>CGPA: 3.75/4</i>
Courses: SQL, Predictive Modeling, Data Visualization, Time Series Forecasting, Marketing and Retail Analytics, Financial and Risk Analytics	

## Technical Skills

<b>Languages</b>	Python, C++, SQL, HTML, CSS, JavaScript
<b>Tools</b>	PowerBI, Tableau, Git, Docker, VSCode, Azure DataBricks, Azure Machine Learning
<b>Libraries</b>	TensorFlow, Pandas, Numpy, PyTorch, PySpark, Hugging Face
<b>Soft Skills</b>	Time Management, Leadership, Team Work, Problem Solving, Analytical Thinking

## Experience

<b>Daimler India Commercial Vehicles (BharatBenz)   Research &amp; Development Intern</b>	<b>Jan 2025 - Jun 2025</b>
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.	
<ul style="list-style-type: none"><li>Developed a statistical twin for dynamic brake testing systems using historical brake performance data and machine learning models.</li><li>Achieved an <math>R^2</math> value of <b>0.94</b> for Mean Fully Developed Deceleration and <b>0.93</b> for Stopping Distance prediction.</li><li>Delivered a product that enabled the Functional Testing team to optimize and pre-screen vehicle performance, reducing testing time by <b>80%</b>.</li><li>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.</li></ul>	
<b>Shrimitha Energy Solutions Private Limited   Data Science Intern</b>	<b>Sept 2024 - Nov 2024</b>
<ul style="list-style-type: none"><li>Developed hybrid models to predict the Remaining Useful Life and State of Charge of batteries and achieved an <math>R^2</math> value of <b>0.97</b> using <b>CNN-LSTM-XGB</b> model.</li><li>Analyzed over 38+ batteries, reducing failure prediction time by <b>25%</b>, enhancing operational decision making.</li><li>Delivered the models for the company, enabling battery performance monitoring and maintenance planning.</li></ul>	

## Research and Projects

<b>Predictive Maintenance of Wind Turbine Systems using AI — Research Project [GitHub]</b>	<b>Aug 2024 - Apr 2025</b>
<ul style="list-style-type: none"><li>Submitted a paper to the <b>Elsevier</b> Engineering Applications of AI journal that presented hybrid methods to predict the Remaining Useful Life of wind turbine systems.</li><li>Designed an interactive PowerBI dashboard to effectively monitor and visualize data fluctuations and changes to act on changes more efficiently.</li><li>Built different hybrid models to predict the Remaining Useful Life of the wind turbine systems out of which <b>CNN-LSTM-GRU</b> performed really well with a coefficient of determination of <b>0.91</b>.</li></ul>	
<b>Behavioural Churn Modeling [GitHub]</b>	
<ul style="list-style-type: none"><li>Increased churn prediction accuracy to <b>98%</b> using the <b>Gradient Boosting</b> model, enabled targeted retention strategies, and lessened churn by <b>15%</b></li><li>Improved precision of churn prediction, minimized false positives, and optimized spend on retentions.</li><li>Validated model consistency with cross-validation and got less than 10% difference between training and testing metrics.</li></ul>	<b>Jul 2024 - Aug 2024</b>
<b>Sales Analysis and Forecasting Behavioural Patterns [GitHub]</b>	
<ul style="list-style-type: none"><li>Analyzed wine sales data through data cleaning, visualization techniques, and time series decomposition, and improved forecasting accuracy by <b>20%</b>.</li><li>Undertook a comparative analysis of 7 forecasting techniques; <b>Triple Exponential Smoothing</b> performed best with a lower RMSE value of 317.43.</li></ul>	<b>Mar 2024 – Apr 2024</b>

## 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.