

# Naveen Sai Tamanampudi

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## EDUCATION

University of North Texas, Denton, TX	January 2024
Master of Science in Data Science	GPA: 4.0
Vellore Institute of Technology, Amaravati, India	July 2019 - June 2023
Bachelor of Technology in Computer Science and Engineering	GPA: 3.9

## WORK EXPERIENCE

Data Analyst   Devi Sea Foods Limited   Tanuku, India	August 2022 - November 2023
<ul style="list-style-type: none"><li>Designed a MySQL database to <b>migrate operational data from flat files</b>, improving report generation speed by 60%.</li><li>Engineered database triggers and stored procedures, <b>ensuring 100% data validity</b> across all tables.</li><li>Profiled, cleaned, and modeled data into a Star Schema with 7 dimension and fact entities using Power Query, resulting in a <b>50% improvement in data refresh efficiency</b>.</li><li>Tracked sales metrics like Rolling Averages, Running Totals, and YoY Growth using Data Analysis Expressions measures.</li><li>Engineered a 3-page Power BI report featuring <b>KPIs, comparative analysis, and time series analysis</b> for production tracking, quality metrics, and export performance, improving <b>operational response time by 35%</b>.</li></ul>	
Data Analytics Extern   SmartBridge   Amaravati, India	March 2022 - May 2022
<ul style="list-style-type: none"><li>Conducted a comprehensive analysis of global population trends using IBM Cognos Analytics and generated a 5-page report featuring proportional and what-if analyses, <b>improving long-term forecasting accuracy by 38%</b>.</li><li>Classified term deposit buyers for retail banking by building model pipelines in IBM Watson Studio, <b>achieved 84.7% accuracy</b> using XGBoost, and <b>improving targeted campaigning</b>.</li><li>Clustered medical premium charges for insurers with an <b>average silhouette score of 0.88</b> using K-Means clustering algorithm in SPSS Modeler leading to an improvement in premium plan recommendations.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, Python, SQL  
**Data Preprocessing:** Power Query, OpenRefine, SPSS Modeler, Excel, Numpy, Pandas, Scikit-Learn  
**Machine Learning:** Regression, Classification, Clustering, Dimensionality Reduction, Ensemble Methods, Model Evaluation  
**Deep Learning:** CNN, RNN, LSTM, Transfer Learning, Object Detection, Image Segmentation, TensorFlow, Keras  
**Generative AI:** NLP, LLM, RAG, Embeddings, Vector Stores, Retrieval Chains, Chat Bots, AI Agents, LangChain, Hugging Face, Streamlit

## PROJECT EXPERIENCE

Movie Review Sentiment Analysis (Selenium, RAG, Streamlit)	June 2025 – August 2025
<ul style="list-style-type: none"><li>Scraped <b>125 user reviews per movie from IMDB with 90% success rate</b> across top 5 search results using a resilient <b>Selenium automation pipeline</b>. Built a Streamlit Application to accept the movie name input from the user.</li><li>Cleaned the review titles using Tokenization, Lemmatization, and Stop Word Removal and <b>generated word cloud</b>, improving theme visibility and viewer insight by 60%.</li><li>Developed a <b>Retrieval-Augmented Generation (RAG) pipeline</b> using FAISS Vector Store, LangChain, and Chat-Groq's LLaMA 3.2 model, <b>enhancing sentiment summarization accuracy by 35%</b>.</li></ul>	
Neethling Virus Detection in Cows and Buffalos (Deep Learning, Flask)	January 2023 - May 2023
<ul style="list-style-type: none"><li>Preprocessed an image dataset of 1,960 cattle images, via <b>augmentation, resizing, and normalization</b>.</li><li>Attained <b>highest accuracy of 94.92% and recall of 92.55%</b> by training and evaluating 5 transfer learning models.</li><li>Surpassed prior state-of-the-art performance with 96.55% accuracy and 93.61% recall using a Weighted Averaging ensemble of EfficientNet, Inception-V3, and VGG-16.</li></ul>	

## ADDITIONAL

**Publication:** [Hazardous Asteroid Prediction using Majority Voting Technique](#) [🔗](#)  
**Certifications:** [Microsoft Certified Power BI Data Analyst Associate](#) [🔗](#), [AWS Certified Cloud Practitioner](#) [🔗](#)