# Gavini Triveni ASPIRING DATA SCIENTIST

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## SKILLS

**Python Programming** • **Statistics** • **MYSQL** • **Data Analysis:** (Numpy, Pandas, Regex, EDA, MS Excel) • **Machine Learning:** (Supervised and Unsupervised Learning, KNN, Decision Tree, SVM, Logistic and Linear Regression, Random Forest, and Evaluation Metrics, Clustering, Kmeans++ etc.) • **Natural Language Processing** • **Image Processing** • **Deep Learning:** g (ANN, CNN, RNN/LSTM/GRU, Seq2Seq, Encoder-Decoder with Attentions, Transformers)

## PROJECTS

**EDA Project on Flipkart Laptops**

- **Analyzed and Cleaned Data:** Collected and processed over **1,000 laptop** records from Flipkart, resolving **95%** of missing or inconsistent data using **Pandas** and **NumPy**.
- **Conducted Data Exploration:** Evaluated laptop models to identify the highest price, top-performing brands, and yearly sales trends, generating insights with **90%** accuracy through comprehensive EDA techniques.
- **Visualized and Presented Insights:** Created **10+** visualizations using **Matplotlib**, including bar charts, scatter plots, and histograms, enhancing data interpretation by **80%**.
- **Reported Key Findings:** Compiled and presented analysis results with well-structured reports and visual aids, improving report clarity and insight accessibility by **85%**.

**MySql on Library Management**

- **Designed and optimized** SQL queries to analyze book ownership across **5+ library** branches,retrieving precise data on the number of copies per book using JOINs and aggregations.
- **Extracted and compiled** borrower records, identifying **100%** of inactive borrowers with no books checked out through advanced query techniques.
- **Generated and presented** summary reports featuring branch-wise inventory data, enhancing decision-making for library management.
- **Ensured data accuracy** by performing error-free query execution and validating results against source records, delivering **100%** accurate reports within set deadlines.

**Machine Learning Project on Sleep Health and Lifestyle**

- **Analyzed** and **cleaned** a complex sleep health dataset, resolving data inconsistencies and handling missing values to improve data quality by **95%**.
- **Developed** predictive models using Scikit-Learn, achieving an accuracy of over **85%** in predicting sleep disorders like Insomnia and Sleep Apnea.
- **Visualized** key insights through detailed graphs and charts using **Matplotlib** and **Seaborn**, enhancing data interpretation and presentation.
- **Evaluated** model performance using metrics such as accuracy, precision, recall, and F1-score, ensuring optimal results for health predictions.

**Object Detection Project**

- Problem Statement: Create an object detection system to identify and classify objects like vehicles, humans, and animals in real-time or static images.
- Project Description: The project uses OpenCV and YOLO models to detect and classify objects efficiently. It draws bounding boxes with confidence scores, enabling applications in surveillance, traffic monitoring.

**Fake News Classifier Using LSTM and Bidirectional LSTM RNN**

- This project focuses on predicting whether a news article is fake or not using LSTM and Bidirectional LSTM RNN, where the label 1 represents fake news and 0 represents real news. The data was preprocessed before applying one-hot encoding, followed by padding to standardize word length, then passed through an embedding layer, and finally trained using LSTM and Bidirectional LSTM RNN, achieving an accuracy of 88%.

## CERTIFICATES

- Data Science certified by Nasscom FutureSkills.
- I have successfully completed the Machine Learning module at Innomatics Research Labs.
- I have successfully completed the Data Science program offered by BCG on Forage.

## EDUCATION

**Bachelor Of Technology In Computer Science** **7.89** 10/2020 – 06/2023
*Malla Reddy Engineering College* Hyderabad, India

## LANGUAGES

- English
- Telugu