

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) • **Genai**

📁 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%.

Text Generation with GPT2 Model using HuggingFace

- In this project, we use the GPT-2 model from Hugging Face for text generation, focusing on Beam Search Decoding and Nucleus Search Decoding, as they are among the most popular techniques for generating coherent text.
- We utilize AutoTokenizer for automatic selection of the appropriate tokenizer and AutoModelForCausalLM to generate the text data effectively.

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
<i>Malla Reddy Engineering College</i>		Hyderabad, India

LANGUAGES

- English
- Telugu