Mownesh. S

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| Linkedin | GitHub | Portfolio |

Professional Summary

Data Science & Machine Learning enthusiast with expertise in Python, SQL, NLP, and Data Visualization. Proficient in data preprocessing, model evaluation, and predictive analytics. Passionate about solving real-world problems using AI/ML. Seeking an entry-level role to leverage analytical skills in a dynamic environment.

Technical skills

Programming	: Python, SQL
Data Manipulation	: Pandas, Numpy, SQLQuries
Data Visualization	: Matplotlib, Seaborn, Power BI, Tableau
Statistics & Math	: Probability, Hypothesis Testing, Linear Algebra, Calculus
Data Preprocessing	: Data Cleaning, Feature Engineering, Handling Missing Data
Machine Learning	: Supervised & Unsupervised Learning, Scikit-learn, TensorFlow, Keras
Natural Language Processing	: Text Cleaning, Tokenization, TF-IDF, Word Embeddings
Big Data	: Spark, Hadoop (Basics)
Model Deployment	: Flask
Version Control	: Git, GitHub
Tools &Platforms	: Google Colab, Jupyter Notebook

Soft Skills

| Problem-Solving | Communication | Collaboration | Adaptability | Time Management | Analytical Thinking |

| Data Storytelling |

Courses/Certifications

PG Data science with Data Analytics and Artificial intelligence
Peopleclick Learning Coimbatore 06/2024-01/2025

Educational Credentials

B.com (Computer Application)
Sri Krishna Aditiya College of Arts & Science 2021 - 2021 | 70%

Projects

1. Life Expectancy and BMI Prediction

Developed a multi-output regression model to predict Life Expectancy and BMI.

- Pre-processed data and applied PCA for dimensionality reduction.
- Implemented Random Forest, SVR, and AdaBoost models.
- Achieved an R^2 score of 0.89 for Life Expectancy using Random Forest

2. Diabetes Classification

Designed a machine learning models to classify diabetes stages (0, 1, or 2).

- Cleaned data and balanced classes using SMOTE.
- Trained models including LightGBM and XGBoost.
- Achieved 84% accuracy and 0.93 AUC ROC using LightGBM

3. Automatic Text Summarization

Built a Transformer-based Text Summarization model with a custom BART implementation in TensorFlow.

- Designed Transformer blocks for encoder-decoder architecture with multi-head attention.
- Optimized performance using ROUGE scores and dataset preprocessing.