Rahul Veggilam
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Professional Summary

Detail-oriented Data Science graduate student with strong analytical skills and hands-on experience in Python, SQL, full-spectrum NLP (incl. NER, BERT, Transformers), machine learning, and data visualization. Proven ability to build, deploy, and explain end-to-end models that turn complex data into insights. Passionate about solving real-world problems with data-driven strategies.

Education

M.Sc. in Data Science and Big Data Analytics
BK Birla College (Autonomous), Kalyan | 2023 – 2025

Technical Skills

- **Languages**: Python, SQL, R
- **Visualization**: Power BI, Tableau, Excel
- **Libraries/Tools**: Pandas, NumPy, Matplotlib, Seaborn, Git, Jupyter
- **ML/DL**: Scikit-learn, TensorFlow, Keras, OpenCV, RNN, CNN, LSTM, PCA
- **NLP**: NER, TF-IDF, BERT, Transformers, Text Classification, POS, Lemmatization
- **Deployment**: Flask, HTML/CSS
- **Cloud**: Learning Azure

Experience

AI/ML Extern | SmartInternz + Google Developers
Mar 2024 – May 2024
Led the end-to-end deployment of a CNN model using VGG16 for ship image classification. Improved inference time and built a real-time Flask interface.

Projects

- **Spam Detection using BERT**
  Developed a transformer-based NLP model using BERT to classify spam messages. Achieved high accuracy and ready for production.
- **BBC News Classification**
  Implemented TF-IDF with Logistic Regression and Naive Bayes to classify news content. Deployed via Flask.
- **Ship Classification (VGG16)**
  Used transfer learning with VGG16 to classify ship types with 95% accuracy. Integrated into a real-time Flask web app.
- **Plant Disease Detection**
  Trained a CNN model to detect leaf diseases and provide remedies. Deployed using Flask for real-time results.

- **YouTube Sentiment Analysis**
  Collected comments via YouTube API and performed sentiment analysis with NLP techniques to extract user opinion trends.
- **Bank Transactions: User Spending Behavior Analysis**
  Analyzed customer transaction data using complex SQL queries to uncover spending patterns, frequency, and merchant preferences. Delivered insights into user segments and financial behaviors.
- **Energy Consumption Forecasting**
  Built a Random Forest model to forecast electricity demand ($R^2 = 0.79$), using time, weather, and historical patterns.
- **Power BI – Superstore Dashboard**
  Created a sales dashboard with KPIs, slicers, and regional breakdowns using DAX and custom visuals.
- **Tableau – Netflix Dashboard**
  Designed an interactive dashboard to visualize genre trends, content timelines, and regional analysis.
- **Diabetes Prediction**
  Built and tuned classification models with 85% accuracy on patient health data using scaling and feature selection.

Certifications

- **Deep Learning – L&T EduTech**: Built CNNs, tuned models, deployed with TensorFlow
- **Machine Learning – L&T EduTech**: Regression, classification, clustering, PCA, model evaluation
- **LinkedIn Learning – Data Analyst Pathway**: Excel, SQL, Power BI, Tableau, Python, R
- **AI/ML Externship – SmartInternz + Google**: Deployed a deep learning model (VGG16) with Flask

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Soft Skills

Critical Thinking | Communication | Data Storytelling | Team Collaboration | Time Management | Adaptability

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