

Gulam Mohiuddin Khan

# Data Analyst

Dubai, [UAE |](https://maps.app.goo.gl/bZR9rF3aS5UJvUto8) ***+971562883966***|  [gulammohiuddin089@gmail.com](mailto:rahmandatascience09@gmail.com) |  [Portfolio](https://gulammohiuddin089.github.io/) |  [github](https://github.com/gulammohiuddin089) |  [linkedin](https://www.linkedin.com/in/gulam-mohiuddin-khan-36b96a330/)

Experienced Data Analyst with 2 years of expertise in machine learning, statistical analysis, and process automation. Skilled in Python and SQL, with a strong track record of building predictive models and leveraging data-driven insights to improve business decision-making. Adept at optimizing workflows and collaborating with cross-functional teams to deliver actionable insights that enhance operational efficiency and drive business outcomes.





**Languages/Tools** Python, Power BI, Excel, R, C++, HTML

**Packages** Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn, Plotly

**Databases** PostgreSQL, MySQL, ETL, Hubble

**Framework** Streamlit, Flask, RESTful API

**DevOps** Github, Azure Cloud, AWS



**Data Analyst | Ai Variant | Hyderabad, India June 2023 – Jan 2025**

* Conducted sentiment analysis on customer reviews from e-commerce platforms using Python, NLTK, and Scikit-learn, improving classification accuracy by 10%. Enabled businesses to enhance targeted marketing strategies and customer satisfaction through data-driven insights.
* Developed an automated data scraping tool using Selenium for real-time sentiment analysis, conducting business process analysis to identify critical gaps. Established and presented Key Performance Indicators (KPIs) to management, enabling actionable execution plans and effective monitoring of customer feedback and market trends.
* Created a time series forecasting model for stock prices in NSE and foreign stock markets, collaborating with **Black** **Rock** Company. Integrated LSTM, ARIMA, and Prophet models, achieving a **15%** reduction in RMSE and predicting stock trends with **85%** accuracy, thereby facilitating informed investment decisions.
* Designed a predictive model for solar power generation at **Cygni** **Energy** Private Limited, achieving an **88%** accuracy rate. This model assisted the company in optimizing resource allocation and reducing operational costs by **6%**, showcasing the impact of data-driven insights on energy management.
* Developed a crude oil price forecasting model for Petronet LNG Ltd. using LSTM, ARIMA, and SARIMA, reducing error rates by 12% through advanced feature engineering and hyperparameter tuning. Delivered actionable insights to help the organization manage financial risks and plan procurement strategies effectively.

**Data Analyst | Foundation AI | Hyderabad, India Jan 2022 – May 2023**

* Designed Automated claims and litigation document processing using advanced Excel with VBA macros, improving operational efficiency by 30% through streamlined workflows and reduced manual effort.
* Developed interactive Power BI dashboards to visualize document processing metrics, enabling real-time insights for leadership to optimize decision-making.
* Leveraged Azure Cloud for efficient data fetching and integration, ensuring seamless access to large-scale document datasets and improving processing speed.
* Collaborated with cross-functional teams to identify key performance indicators (KPIs) and delivered actionable insights, enhancing client satisfaction and operational effectiveness.
* Implemented data quality checks and validation processes, ensuring the accuracy and reliability of processed data, contributing to improved legal claims and litigation outcomes.



GPA:  **May 2015 -May 2020**

**Jawaharlal Nehru Technological University Hyderabad** | B.Tech in Civil Engineering | Mahabubnagar, Telangana.



# NLP Sentiment & Classification Analysis | Python, NLTK, Scikit-learn, Plotly, Selenium, Flask

* Conducted sentiment analysis on customer reviews, increasing classification accuracy by **10%** through extensive feature engineering and model tuning.
* Highlighted the business value by enabling companies to better understand customer sentiment, leading to targeted marketing strategies and improved customer satisfaction.
* Innovated by automating the data scraping process, allowing for real-time analysis of customer reviews, which enhanced the overall responsiveness of the model.

# Stocks Forecasting | Python, LSTM, ARIMA, Prophet, Scikit-learn, Plotly

* Developed a time series forecasting model for stock prices, integrating LSTM, ARIMA, and Prophet models, achieving a **15%** reduction in RMSE compared to traditional forecasting methods.
* Demonstrated the potential for informed investment decisions by predicting stock trends with an **85%** accuracy.
* Innovated by combining multiple forecasting models to enhance prediction robustness, resulting in a more reliable tool for financial analysts.

# Crude Oil Price Estimation | Python, LSTM, ARIMA, Prophet, SARIMA

* Developed and compared forecasting models, achieving the highest accuracy with LSTM and reducing error rates by 12% through hyperparameter tuning and feature engineering.
* Provided actionable insights into crude oil price trends, enabling better financial risk management and strategic decision-making.
* Enhanced model interpretability by integrating real-time visualizations using Plotly, improving stakeholder engagement.

# Solar Power Prediction | Python, Gradient Boosting, XGBoost, Scikit-learn, Streamlit

* Created a predictive model to estimate solar power generation with an **88%** accuracy, assisting energy companies inoptimizing resource allocation and reducing operational costs by **6%**.
* Showcased the business impact by improving the accuracy of energy forecasts, leading to better grid management and reduced energy waste.
* Applied advanced feature engineering techniques, which improved model performance and provided deeper insights into the key drivers of solar power generation.



**Data Science Certification | ExcleR Solutions May 22, 2023**

**Master’s Program in Data Science | NASSCOM, Government of India Aug 12, 2023**

**Machine Learning with Python | IBM Developer Skills Network July 24, 2023**

**Python 101 for Data Science | IBM Developer Skills Network July 25, 2023**



* English: Fluent
* Hindi: Fluent
* Urdu: Fluent
* Telugu: Fluent



**Data Science Mentor, Online Community**

* Mentored aspiring data scientists on data analysis techniques, machine learning algorithms, and effective use of visualization tools, helping them build data-driven portfolios.
* Simplified complex data science concepts for beginners, offering practical examples to enhance understanding and skill development.
* Provided detailed feedback on participants projects, helping them refine their work and build stronger, more polished data portfolios.