M A Rahman

Data scientist - Data Analyst

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Aspiring data scientist skilled in statistical analysis, machine learning, and data visualization. Proficient in Python and SQL. Experienced in developing predictive models, conducting EDA, and deploying machine learning solutions. Strong problem-solving abilities with a passion for continuous learning and professional growth.

EDUCATION

GPA: 75.58/100 May 2019

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

Courses: Data Structures and Algorithms | Machine Learning & Artificial Intelligence | Advance Programming | Big Data & Distributed Systems |Statistics & Probability | Software /Web Development |Image Processing & Pattern Recognition | Opearting Systems & Networks | Python | R | SQL

SKILLS

Languages	Python, R, SQL
Packages	Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn, Plotly, Tableau
Databases	PostgreSQL, MySQL, ETL
Framework	Streamlit, Flask, RESTful API
DevOps	Git, Github, Azure

INDUSTRY EXPERIENCE

Data Science Intern | Ai Variant | Hyderabad, India Feb 2024 - Present

- Advanced Data Science Applications: Leading the development of innovative data science solutions, focusing on real-time predictive modeling and advanced machine learning algorithms.
- Cross-functional Collaboration: Working closely with data engineers and business stakeholders to deploy models into production, optimizing business processes and driving data-driven decision-making.
- Model Optimization: Implementing hyperparameter tuning and model evaluation techniques, resulting in a **15%** improvement in model accuracy across various projects.
- Scalable Solutions: Contributing to the design and deployment of scalable machine learning pipelines using cloud platforms, ensuring robust and efficient data processing.

Data Science | ExcleR Solutions | Hyderabad, India Feb 2023 - Dec 2023

- Comprehensive Training: Completed an extensive program in statistical analysis, machine learning, deep learning, data visualization, and big data technologies.
- Capstone Projects: Developed and presented multiple projects, including predictive modeling, time series analysis, and natural language processing applications, showcasing proficiency in Python and other key data science tools.
- Practical Experience: Gained hands-on experience in data preprocessing, feature engineering, model building, and performance evaluation, leading to the successful completion of several data-driven projects with measurable business impact.
- High Distinction: Graduated with high distinction, demonstrating exceptional understanding and application of data science concepts and techniques, recognized for consistently delivering high-quality work.
- Peer Collaboration: Collaborated with peers on group projects, enhancing teamwork and communication skills in a professional setting, contributing to the successful delivery of collaborative projects.
- Industry-Relevant Skills: Acquired industry-relevant skills in machine learning algorithms, data wrangling, and data visualization tools, preparing for real-world data science challenges and enabling effective contributions in subsequent roles.

PROJECTS

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

Jan 2024 - Feb 2024

- Developed a time series forecasting model for Apple 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.

Bankruptcy Prevention | Python, Logistic Regression, Random Forest, Gradient Boosting, SVM, Scikit-learn
March 2024 - April 2024

- Built a predictive model for bankruptcy prevention, reducing false positives by **18%** and improving overall accuracy by **22%**, potentially saving companies from significant financial losses.
- Demonstrated the business value by identifying at-risk firms earlier, allowing for timely intervention, which could save millions in potential losses.
- Introduced an ensemble approach by combining various models, which led to a more accurate and generalizable solution.

NLP Sentiment & Classification Analysis | Python, NLTK, Scikit-learn, Plotly, Selenium, Flask
May 2024 - June 2024

- Conducted sentiment analysis on Amazon reviews, increasing classification accuracy by **20%** 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.

Solar Power Prediction | Python, Gradient Boosting, XGBoost, Scikit-learn, Streamlit
July2024 - Aug 2024

- Created a predictive model to estimate solar power generation with an **88%** accuracy, assisting energy companies in optimizing resource allocation and reducing operational costs by **12%**.
- 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.

Certifications

Internship Certification | AI Variant — **Feb 09, 2024 – Present**

Data Science Certification | ExcleR Solutions — **May 22, 2024**

Masters Program in Data Science | NASSCOM, Government of India — **Aug 12, 2024**

Machine Learning with Python | IBM Developer Skills Network — **July 24, 2024**

Python 101 for Data Science | IBM Developer Skills Network — **July 25, 2024**

Technical Tools

IDE & Tools: Jupyter Notebook, Collab Notebook, VSCode, PyCharm

Collaboration Tools: Slack, Zoom, Microsoft Teams

Additional Experience

Data Structures & Algorithms | C++

- Implemented various algorithms to solve complex computational problems during academic projects.

Operating Systems & Networking

- Gained foundational knowledge in OS concepts and computer networking, relevant to data science applications.

Interests

Continuous Learning: Staying updated with the latest trends in AI/ML through online courses and workshops.

Open-Source Contribution: Actively contributing to open-source projects in data science.