

# SAAD UR RAHMAN

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## SUMMARY

A highly motivated and results-oriented graduate in Data Science and Analytics from the University of Maryland and Artificial Intelligence from Indiana Wesleyan University with proven experience in data science, data engineering, data warehouse, ETL processes, and machine learning models. Possess a strong foundation in Python, SQL, Tableau, AWS/GCP cloud computing, & deep learning techniques. Seeking a challenging role in data science, data engineering or machine learning where I can leverage my skills & contribute to data-driven decision-making.

## CERTIFICATIONS

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|--------------------------------------------------------|---------------|
| • AWS Machine Learning Associate(AWS)(In Progress)     | April 2025    |
| • Tableau Certified Data Analyst(Tableau)(In Progress) | May 2025      |
| • Databricks Fundamentals(Databricks)                  | January 2025  |
| • AWS AI Practitioner(AWS)                             | January 2025  |
| • AWS Cloud Practitioner(AWS)                          | December 2024 |
| • Data Analytics in Tableau(DataCamp)                  | August 2024   |

## WORK EXPERIENCE

<b>Market Data Scientist</b> Co-Cultured	April 2024 - Present Brooklyn, NY
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- Planned the **schema** and **standardized** the data procurement process, directly resulting in **improved data quality** and **easier data integration**.
- Leveraged **Tableau** for **Data Visualization**, creating **dashboards** with **KPIs** to communicate the insights to the stakeholders efficiently, hence directly contributing towards **Business Development**.
- Independently developed the **Data Warehousing Infrastructure** and automated the process of **ETL** using **Python**, **Web Development**, **AWS(Lambda, S3, RDS, API Gateway, Cloudwatch)**, and **SQL**.
- Participated in team meetings, discussing the expansion of projects and providing inputs and insights.

<b>Graduate Teaching Assistant</b> College of Information Studies, UMD	August 2023 - December 2023 College Park, MD
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- Taught, graded assignments & exams and offered personalized feedback to 150+ undergraduate students in the **Dynamic Web Development** course (**HTML, CSS, JavaScript**).

<b>Social Media Analyst</b> The Chaotic Quills	February 2022 - August 2022 Chandigarh, India
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- Proposed and supervised the implementation of social media events data storage using **MS Excel** and **SQL**.
- Collaborated with **cross-functional** teams, streamlining the integration of the organization.
- **Centralized the data storage process**, reducing the process's time consumption by at least 30%.
- Analyzed social media and marketing statistics, increasing the social media following by 10%.

<b>Data Scientist and Business Analyst</b> The Spark Foundation	January 2022 - February 2022 Remote
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- Created **data visualization graphics**, translating **complex data** into comprehensive visual representations.
- Presented data science findings to peers, illustrating progress made during various tasks.

- Designed **ML models** using **feature selection**, improving **prediction** accuracy by **15%**.

## Data Scientist and Machine Learning Engineer

Seven Mentors

February 2021 - September 2021

Pune, India

- Designed a **GUI** to collect college admission data and store it using **Python**, **Tkinter**, and **MySQL**.
- Led a project to design **predictive models** for chronic kidney disease, which involved **extensive data analysis** and model testing to ensure accuracy and reliability.

## PROJECTS

**Generative A.I.** - Used **deep learning** and **NLP** to build a prompt-to-image generation model by implementing a **diffusion model(U-Net)** and deployed it on **HuggingFace Space**.

**Crime Data Analytics** - Researched the crimes in Montgomery County(**Structured Data, 300000+ rows**), Maryland, and presented a research proposal highlighting the issue and key trends, with the use of **Exploratory Data Analysis(Tableau, Python, Seaborn, Plotly, and Folium)**, **Time-series Prediction**, **Geospatial Analysis**, and **Causal Inference** to understand and predict the number, type, time, place, and reason for the crime.

**Robotics with R.L.** - Created & trained a miniature autonomous vehicle using **reinforcement learning**. Achieved MSE of 8.8, R squared of 94.03%, 100% lane following & traffic sign recognition.using **OpenCV**, 83% using **CNN**.

**Job Application Analysis** - Designed **schema** and created a personalized job application dataset and **visualized** it on the **tableau** to understand the various trends in the job market across the States and **extract insights** to assist my application strategies and boost my interview chances.

**Langchain(LLM and RAG)** - Contextually analyze information from **large datasets** by designed and engineered a **Langchain**-based chatbot powered by **Retrieval Augmented Generation (RAG)** to .

**Big Data Analytics** - Successfully implemented a **sandbox** for CoinMarketCap, with the focus on **extracting** and **analyzing** cryptocurrency data using CoinMarketCap's **API**, **Hadoop**, **MongoDB**, **Airflow**, and **Dask** and performing **EDA** to generate **insights** such as cryptocurrency valuation and potential market impact.

**Cloud Computing(AWS)** - Developed and hosted an elegant Photo Gallery Website to upload, view, sort, and delete images by leveraging **HTML**, **CSS**, **JavaScript**, **AWS S3**, **AWS Lambda**, **AWS EC2**, and **AWS RDS**.

## TECHNICAL SKILLS

<b>Domain</b>	Data Science, Machine Learning Algorithms, Natural Language Processing, Data Mining, Neural Networks, Exploratory Data Analysis, LLMs, Data Engineering, Mathematics.
<b>Tools</b>	Amazon Web Services(S3, Lambda, EC2, RDS, API Gateway, Glue, Sagemaker, Kinesis), Google Cloud(GCP), Tableau, Power BI, Databricks, GitHub, MS Excel, VS Code.
<b>Programming</b>	Python, Pandas, NumPy, Scikit-Learn, PyTorch, TensorFlow, R Programming, Matlab, SQL, HTML, CSS, JavaScript.
<b>Soft Skills</b>	Agile, Communication Skills, Team Player, Cross-Functional Collaboration, Trust Building Strategic Thinking, Empathy, Adaptability, Complex Problem Solving, Cultural Sensitivity.

## EDUCATION

**Master of Science, Artificial Intelligence (MSAI)**, Indiana Wesleyan University      March 2025 - August 2026  
Machine Learning, Artificial Intelligence, Deep Learning, Data Analytics, Applied Mathematics, AI Tools.

**Master of Data Science and Analytics (MSDS)**, University of Maryland      August 2022 - December 2023  
Data Science/Analytics, Data Engineering, Machine Learning Algorithms, Deep Learning, Statistical Techniques, Programming Languages, Mathematics, Optimization Methods .

**Bachelor of Technology (B.Tech)**, Symbiosis International University      June 2016 - April 2021  
Probability, Statistical Analysis, Calculus, Linear Algebra, C, Applied Mathematics.