


# Abu Saleh

Data Scientist & Data Analyst | AI/ML • Forecasting • SQL & Python • Business Intelligence • Power BI • Cloud & Data Visualization

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## Professional Summary

Data Scientist & Analyst with 6+ years of experience in system engineering, cloud platforms, and data-driven applications. Skilled in Python, SQL, Power BI, AWS, and machine learning frameworks (LSTM, GRU, ARIMA, XGBoost). Proven record of improving forecasting accuracy by 30%, building interactive BI dashboards, and deploying production-ready ML models on AWS SageMaker. Strong background in database management and IT systems, combined with advanced graduate research in AI-driven forecasting.

## Technical Skills

**Programming & Databases:** Python, SQL, Java, JavaScript, MySQL, PostgreSQL, SQL Server

**Libraries & Tools:** Pandas, TensorFlow, Scikit-learn, Apache Spark, MapReduce, D3.js, Matplotlib

**Visualization:** Power BI, DAX, Excel, D3.js

**Cloud & DevOps:** AWS (RDS, SageMaker), Docker, GitHub, REST APIs

**Other Skills:** Data Pipelines, Data Cleaning, Statistical Analysis, Problem Solving, Cross-Functional Collaboration

## Education

### Master of Science in Computer and Information Science (Data Science)

Gannon University, Erie, PA — Aug 2023 – May 2025

- Capstone: *AI-Driven Sales Forecasting for Retail Inventory* — Improved forecast accuracy by 30% using LSTM, GRU, ARIMA, and XGBoost models.
- Key Coursework: Big Data Analytics, Data Mining, Data Visualization, Business Intelligence, Statistical Computing, Database Systems, Cloud Architecture

## Projects

### AI-Driven Sales Forecasting (Python, TensorFlow, AWS SageMaker) | [GitHub](#)

- Improved retail inventory forecast accuracy by 30%, enabling better stock planning and reducing waste.
- Processed 50K+ records, engineered features (lag values, rolling averages), and tested multiple models (ARIMA, SARIMA, LSTM, GRU, XGBoost).
- Deployed via AWS SageMaker with an automated retraining pipeline.

### Retail Sales Performance Dashboard (Power BI, DAX, Excel) | [GitHub](#)

- Analyzed two years of sales data to identify key trends by region and product category.
- Built an interactive dashboard for managers to make informed inventory and sales decisions.

### Interactive Data Visualization Dashboard (D3.js, JavaScript) | [Live Demo](#)

- Created a multi-page dashboard featuring scatter plots, histograms, pie charts, and stacked bars.
- Developed responsive, filterable UI for topics such as sleep health, social media, and shopping trends.
- Additional projects available on LinkedIn & GitHub (Big Data, SQL Case Studies, Tableau HR Analytics).

## Professional Experience

### Computer System Engineer | Innovana Event Ltd., Dhaka, Bangladesh | 2017 – 2023

- Automated IT and data workflows using Python, PowerShell, and Docker, reducing issue resolution time by 40%.
- Developed system monitoring and reporting dashboards, improving data-driven decision-making.
- Maintained 99.9% uptime for critical business operations.

### Database Administrator | A.S Traders, Dhaka, Bangladesh | 2013 – 2017

- Managed MySQL, SQL Server, and PostgreSQL databases on AWS RDS, optimizing query performance by 45%.
- Implemented backup and recovery strategies ensuring zero data loss.

### Network Administrator | Cosmopoint Institute, Kuala Lumpur, Malaysia | 2006 – 2008

- Maintained Cisco network infrastructure with 99.9% uptime.
- Reduced troubleshooting time by 50% through proactive monitoring and optimization.

## Certifications

- AWS Solutions Architect (In Progress)
- Responsive Web Design – freeCodeCamp

## Achievements

- Dean’s List, Gannon University (2024)
- Academic research on deep learning for intelligent inventory control
- Developed & deployed multi-page D3.js data dashboard and Power BI sales dashboard used in decision-making