

# Azharmadani Syed

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## SUMMARY

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**Data Scientist with 5+ years of experience** in manufacturing, healthcare, logistics, and retail. Skilled in building data-driven solutions, performing 50+ exploratory data analyses, and developing predictive models with 90%+ accuracy. Expertise in data quality management, streamlining ETL (cut time by 30%), and deploying machine learning models on cloud platforms (Azure, AWS). Adept at creating data visualizations that improve decision-making by 15-20%.

## EDUCATION

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MASTER OF SCIENCE IN ENGINEERING DATA SCIENCE

Dec 2024

UNIVERSITY OF HOUSTON | CGPA: 4.0/4.0

Houston, TX

## SKILLS

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- **Languages:** Python, R, SQL, SAS, Scala, Java
- **Business Intelligence tools:** Power BI, Tableau, Looker, Spotfire, Streamlit, MS Excel, Matplotlib, Seaborn, Plotly
- **Frameworks:** Pandas, Numpy, TensorFlow, Keras, PyTorch, Scikit-learn, NLTK, OpenCV, FastAPI, Flask
- **AI/ML models:** Generative AI (LLMs, RAG, Prompt Engineering), Natural Language Processing (LSTM, Transformers), Neural Networks, Feature Selection, Feature Engineering, A/B Testing, Statistical Analysis, Hypothesis Testing, Time Series Analysis, Exploratory Data Analysis
- **Tech Stack:** Microsoft Azure, Databricks, GCP, Azure, Spark, Hadoop, Hive, AML, Git, Snowflake, MLOps, Kubernetes, SQL, NoSQL, ETL, AWS

## EXPERIENCE

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Machine Learning Research Assistant

Sep 2023 – Present

University of Houston

Houston, TX

- Authored a **research paper** on **advanced pain detection** for **spinal cord injury patients**, employing heart rate parameters and **deep learning** models (TensorFlow, Keras), **enhancing** pain assessment **accuracy by 35%..**
- Spearheaded the development of an **R-based analytics** tool that processed **10,000+** heart rate variability **data points**, resulting in a **25%** increase in **research accuracy** and enhancing the overall reliability of findings.
- Conducted **data preprocessing and feature engineering** including comprehensive **EDA**, identifying critical heart rate parameters that **enhanced** predictive **model performance by 20%**.

Senior Data Analyst

May 2022 – Jul 2023

Tiger Analytics

Hyderabad, India

- **Built and deployed** a **sentiment analysis** model using deep learning techniques (**NLP**) to **analyze customer feedback**, which provided actionable insights that **improved customer satisfaction by 15%**.
- Developed a **product recommender system** using Collaborative Filtering and **XGBoost**, **boosting sales by 15%** through vending machine product placements tailored to customer preferences for MARS company.
- Performed advanced **statistical tests (t-tests, chi-square tests, ANOVA)** to **validate** the significance of features and relationships in **customer behavior data**, leading to a **20% increase** in model accuracy.
- Led the **end-to-end deployment** of ML models including development, evaluation, and deployment in **Azure** implementing **CI/CD pipelines**, reducing the deployment time by 40%.
- **Reduced** project turnaround **time by 3 weeks** through **mentoring 5 junior data scientists** in ML model development.
- Analyzed and transformed **500,000+** data points into an interactive **Power BI dashboards**, communicating complex **trends and insights** to both technical and non-technical team members; an essential tool for over 15 users.

DATA ANALYST

Jul 2019 – Apr 2022

Vedanta Resources Ltd.

Korba, India

- Designed **machine learning models** like **Random Forest**, and **Gradient Boost** for equipment monitoring; improved equipment utilization and **minimized unexpected downtime by 15%**.
- Optimized **SQL** queries for automated data extraction, transformation, and loading (**ETL**) processes, resulting in a **30% reduction** in **data preparation time** and allowing analysts to focus on high-value predictive analytics tasks.