Sheharyar Akhtar

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Skills

- **Databases:** MySQL, Snowflake, GreenPlum, PostgresSQL, MongoDB
- **Programming Languages:** Python, R Programming, C++, MATLAB, Stan, SQL, noSQL
- **Big Data & Machine Learning:** Python, Keras, Pytorch, Flask/ Dash, PyMC, Fbprophet, LLMs, Stable Diffusion
- **Cloud:** Azure (Databricks, AzureML, AppService, MLFlow, Azure Pipelines, Azure DevOps)
- **Tools:** RStudio, Jupyter Notebook, Anaconda, Git, Docker, Selenium, MS Excel, Tableau, PowerBI, MLOps, CI/CD, Airflow,
- **Techniques:** EDA, Data science pipeline, Causal Inference, Regression, Classification, Clustering, A/B testing, Forecasting
- **Soft Skills:** Agile, Scrum, Leadership, Communication, Problem Solving, Strategic Planning

Experience

Systems Limited   Aug '23 – Present

Consultant – Data Science

- Pioneered uniform model logging using MLFlow across AzureML, Databricks, and On-prem devices: reducing costs through Databricks' complimentary tracking server utility, while enhancing company-wide knowledge transfer efficiency and model assessment.
- Engineered a Python Dash and Snowpark web app on Azure App Service, revolutionizing global ESG data ingestion by automating checks, formatting for Snowflake, and instituting an approval system for production readiness.
- Streamlined Azure DevOps pipeline with Docker for efficient development and deployment, collaborating cross-functionally for standards adherence and user-centric enhancements.
- Developed predictive models leveraging tree-based algorithms to forecast female Full-Time Employee (FTE) percentages in management across markets, aiming for a 45% representation, addressing gender bias.
- Engineered interactive simulations allowing exploration of counterfactual scenarios, empowering decision-makers to visualize and assess the impact of strategic changes on female FTE percentages in management.

Afiniti   April '21 – Aug'23

Data Scientist II | Applied AI

- **Trained and led** up to 5 resources across different accounts across the Iberia region to define strategic roadmaps and ensure high-quality deliverables and timely work.
- Transformed raw data feeds into meaningful modeling datasets using stored procedures in **PostgreSQL and MySQL**
- Developed interactive **RMarkdown/Shiny dashboards** to track and visualize important KPIs.
- **Engineered customer features** that improved model validations by **over 50%** when included in the modeling process.
- Collaborated with an international team of data resources, developers, client executives and project managers to **launch Afiniti on two new clients** in the Iberia region*.*

Projects

Diversity Forecasting Initiative

- Led a Diversity Forecasting Initiative to address gender bias in management, targeting a 45% representation of female Full-Time Employees (FTEs) through predictive models utilizing tree-based algorithms.
- Developed and deployed forecasting models across various markets, projecting future FTE percentages based on historical hiring, promotions, and turnover, enabling proactive strategies for achieving gender parity.
- Engineered interactive simulations allowing exploration of counterfactual scenarios, empowering decision-makers to visualize and assess the impact of strategic changes on female FTE percentages in management.
  Technologies: Python, lightgbm, scikit-learn, Plotly-dash, Azure (ML Studio, AppService, DevOps), MLFlow, Git, Spark

Sales Maturity Forecasting

- Pioneered a sales maturity forecasting system to predict customer holdings 30 days after a call, ensuring compliance with the client's requirement of a 30-day maturity period
- Predictions were stored in a Greenplum (Postgres) database, and an interactive dashboard was created using RMarkdown, providing real-time insights on current gain numbers and 30-day predictions to stakeholders.
  Technologies: Python, R (data.table, tidyverse, RMarkdown, knitr), Greenplum (Postgres)

Education

B.S. Mechanical Engineering – GIKI

- **Courses:** Engineering Statistics, Numerical Analysis, Intro to Computing, OOP, Linear Programming, Software Engineering

Achievements and Awards

- Published a Peer-reviewed article in the Cureus Journal of Medical Science, contributing to understanding the root cause of hesitation in getting the Covid Vaccine – Cited 27 times
- Authored multiple articles for the online teaching blog "Towards Data Science," sharing insights on Bayesian modeling – Over 10k views