Muhammad Umer Tahir

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Portfolio website

LinkedIn

EDUCATION

Rhodes College, Memphis, TN, ***Bachelor of Science,*** Expected Graduation: May 2026

- **GPA**:3.58
- **Skills:** Machine Learning, Sci-kit learn, Java, Python, HTML, R, SQL, Tableau, Power BI, Matplotlib, Office, Snowflake, Data Pipeline, Data Transformation, Excel, TensorFlow, C, ETL, BI Data modelling, Power Automate, Data Engineering, Data Mapping, Power BI

WORK EXPERIENCE

Data Analytics Intern - Highline Warren, Memphis, TN, May 2025 – Present

- Developed HR and Payroll Dashboard in Sigma BI to provide business insights
- Collaborated with cross-functional teams to conduct discovery meetings, define and map KPIs required for the dashboard
- Built and optimized data pipelines using SQL and Snowflake including data extraction ETL, transformation and model development for the dashboard integration
- Brought down the data pipeline cost by 90% (from $20k to $1.8k)
- Applied data analytics practices like data cleaning, calculations, joins and metrics design
- Created interactive visualizations and pivot tables to drive strategic decisions using filters
- Made predictive model to forecast HR and payroll trends and insights using Linear Regression, Random Forest and Prophet

Data Analysts Summer Fellowship, Memphis, TN, May 2024- September 2024

- Applied supervised machine learning algorithms using scikit-learn (KNN, Decision Tree, Ensemble Methods) to analyze financial datasets for Rhodes College Statistics Department.
- Designed and optimized Python machine learning pipelines, improving data processing time by 20%.
- Developed stock classification and regression models (Random Forest, Linear Regression, Neural Networks) that increased stock price prediction accuracy by 10%.
- Delivered technical presentations on machine learning algorithms, training 10+ peers and professors, and introduced TensorFlow for advanced neural network modeling.

Rhodes College Rhok- SAT CubeSat Research Project, Memphis, TN, April 2023-August 2023

- Developed a Python program using the KISS port library, enhancing satellite data frame retrieval by 30% in partnership with NASA.
- Built a dynamic telemetry dashboard with Plotly and Matplotlib for data visualization and analysis.

PROJECTS

Rhodes College Admissions Department, Student Enrollment Predictor, May 2024
https://github.com/umer0335/College-student-enrollment-predictor-

- Developed a machine learning model to predict student enrollment likelihood, improving decision accuracy for the admissions office by 12%.
- Performed comprehensive data cleaning and preprocessing using Python and Pandas, reducing data inconsistencies by 30%.
- Tested multiple algorithms (KNN, Decision Tree, Gradient Boosting) and selected Random Forest for optimal performance, achieving 85% prediction accuracy.
- Created a dynamic private web portal for the Rhodes College Admissions Office, enabling real-time enrollment predictions and boosting user engagement by 10%.