

Naheed Sajjad

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Profile

- Overall 5+ years of professional experience in IT /Education/Telecom industry as Remote Sensing Analyst and Instructor.
- Hands-on experience developing Flask-based web applications using HTML, JavaScript/CSS, SQL, and API integrations with multiple REST endpoints and Google Analytics to support user engagement and system improvement.
- Skilled in analyzing user data and creating clear, automated reports using Python, Excel, power BI and Tableau to provide insights that improve application functionality and user engagement.
- Capable of maintaining, cleaning, and updating databases to ensure accuracy and data integrity.
- Exceptional interpersonal communication skills, analytical capabilities, attentive listening, and a continuing pursuit for increased knowledge of new trends and resources.

Education and Certifications

BAPG - Business Analytics

2025 – Cont.

Cambrian College, Sudbury, ON, Canada

Data Analytics Essentials

2024

CISCO Networking Academy

Master's in Mathematics

1998 - 2000

Quaid-i-Azam University, Islamabad, Pakistan

Projects

Flask Web App with API Integrations

- Built a multi-page Flask web app using HTML, CSS, and templates with clean navigation and organized page structure.
- Integrated real-time APIs to display ISS location, weather data, country details, and distance from the user.
- Added extra features like a BMI calculator and weather page and connected the site to Google Analytics to track user activity.
- Used Python and automation tools to generate simple reports and improve the app's overall functionality and user experience.

Machine Learning-Based House Price Prediction in Python

- Cleaned, explored, and prepared a Kaggle housing dataset by handling outliers, encoding categorical features, and normalizing numerical variables.
- Applied PCA to reduce dimensionality and improve model performance while retaining essential information.
- Built and compared multiple supervised ML models (Linear Regression, KNN, Random Forest, SVR, Neural Network, Gradient Boosting) for predicting house prices.
- Evaluated models using R², MAE, and MSE and selected the best-performing algorithm based on accuracy and overall predictive performance

Tableau Dashboard Project – Housing Affordability in Canada

- Engineered an automated data analysis pipeline by modeling a raw Kaggle dataset in Tableau, utilizing advanced calculations and clustering to dynamically identify and visualize key housing market trends.
- Designed and built an interactive Tableau dashboard featuring multi-chart visualizations to communicate affordability insights across Canadian provinces, showcasing skills in data modeling and automated report generation.

Professional Experience

Mathematics Instructor

2015 – 2016

Madinatul Uloom Academy –Scarborough, ON

- Applied analytical and data-driven approaches to assess student performance, identify learning trends, and develop strategies for measurable improvement in outcomes.
- Designed and implemented structured lesson plans, demonstrating strong documentation, organization, and process management skills applicable to business analysis and IT projects.
- Communicated complex mathematical and statistical concepts clearly to diverse audiences, strengthening ability to translate technical insights into actionable information.
- Collaborated with academic staff to streamline grading and reporting workflows, enhancing process efficiency and accuracy.

Remote Sensing Analyst – Thesis

2006 – 2011

ENSTA Bretagne – Brest, France

- Developed and implemented radar based analytical model for signal processing, target detection, communication and navigation systems
- Utilized Python and MATLAB to process large-scale simulations, comparisons with experimental data and visualizing results to validate the analytical model
- Collaborated with cross-functional teams to translate remote sensing data insights into actionable improvements in radar system performance and make informed security decisions.

Mathematics Instructor

2012 – 2013

COMSATS University – Abbottabad, Pakistan

- Designed and implemented lesson plans to teach complex mathematical concepts, applying critical thinking and problem-solving techniques.
- Analyzed student performance data, identifying trends in assessment results to develop tailored improvement plans.
- Utilized Excel to track student progress, creating charts and reports for parent-teacher meetings and administrative reviews.
- Applied optimization techniques to classroom management, analyzing student data to maximize learning outcomes and improve teaching strategies.

Skills

- **Data Analysis:** Python, SQL, R and Excel for data cleaning, manipulation, and analysis.
- **Data Visualization:** Tableau, Power BI, ArcGIS and New Relic
- **Statistical Analysis:** Knowledge of hypothesis testing and regression
- **Soft Skills:** Problem-solving, attention to detail, and ability to communicate insights clearly to non-technical audiences.