HASAN KHAN

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EDUCATION

University of Wisconsin-Madison, Wisconsin School of Business, Madison, WI   2024
Master of Science in Business Analytics Candidate, Digital Risk Track
- GPA: 3.65/4.0; Merit Scholarship (2023)
- Relevant Coursework: Data Technology, Machine Learning, Risk Analytics and Behavioral Science, Risk Management and Technologies in a Digital Age, Robotic Process Automation, Advanced SQL and Data Warehousing
- Club Membership: Graduate Business Association, Data & Analytics Club

University of Wisconsin-Madison, Madison, WI   2022
Bachelor of Science in Data Science
- Dean's List (Spring 2020, Spring 2021)

TECHNICAL SKILLS AND CERTIFICATIONS

Software and Tools: Python, R, SQL, Java, HTML, JavaScript, Apple iWork, Advanced Excel (Pivot Tables, VLookup), Photoshop, Tableau, PowerBI, UIPath, Snowflake, AWS, SAS, GitHub, Jira, DataRobot, Dataiku, DBT, Fivetran

Certificates Completed: Data Analytics (Google, 2022), Data Science (IBM, 2023), WSB Excel Proficiency (2024)

Certificates In-Progress: Tableau Desktop Specialist, SnowPro Core Certification, Generative AI Fundamentals

SELECTED PROJECTS

Estimating Vaccination Rates for H1N1 and Seasonal Influenza (Python): Refined influenza vaccination strategies via predictive modeling, leveraging National 2009 H1N1 Flu Survey dataset. Developed machine learning algorithms tailored to each vaccine and ensured data integrity was maintained through meticulous data preprocessing. Tuned hyperparameters of each model using Grid Search Cross-Validation to minimize computational resources spent and maximize ROC AUC performance.

Prototyping Cloud-Native Data Architecture (AWS S3, Redshift, Glue, Sagemaker): Constructed predictive machine learning model to assess likelihood of bankruptcy for 10 companies under consideration for new portfolio. Designed cloud-native data architecture in AWS to centralize data storage and streamline analytics processes. Developed landing zone for various data types and sources and data warehouse that consolidated balance sheet income statement financials and bankruptcy statuses for simplified access. Ensured scalability and replicability through automation.

Unveiling SpaceX Falcon9 Launch Success (Python, SQL, Folium, Plotly): Acquired and refined Falcon9 launch data to understand factors influencing SpaceX Falcon9 launches and enable competing startups to make informed bids against them. Conducted exploratory analysis using Python, found patterns in data with SQL, and determined labels for training supervised models. Created interactive dashboard for hands-on launch record analysis with Plotly, generated proximity map to analyze launch sites with Folium, and built diverse classification models to determine whether first stage would land successfully.

PROFESSIONAL EXPERIENCE

Graduate Consulting Practicum, Wisconsin School of Business, Madison, WI   01/24 – 05/24
Analytics Consultant; Project Sponsor: AGCO Corporation
- Developed and optimized machine learning models in Python to detect fraudulent travel expenses, automating anomaly detection and improving audit efficiency
- Analyzed travel expense data to refine fraud detection algorithms, increasing model accuracy through continuous feedback
- Visualized insights in interactive Tableau dashboard, increasing speed and efficiency in identifying and investigating suspicious reports

Wisconsin Union, Madison, WI   08/21 - 12/21
Event Support Coordinator
- Supervised 50+ performances, general conferences, and orientations to accommodate 300+ average attendees for high-impact, high-visibility campus events; ensured successful outcomes by managing pre-event logistics per client needs
- Led six staff, managed diverse personalities, and utilized leadership/interpersonal skills to create positive environment

HomeGoods, Wheaton, IL   05/21 - 08/21
Merchandise Associate
- Led diverse team of five staff in store organization, ensuring effective completion of assignments and next day readiness
- Achieved exceptional customer satisfaction, engaging ~ 30-60 customers per hour while maintaining swift and accurate pace during checkouts; educated customers about store products provided directions enhancing customer experience.

ADDITIONAL INFORMATION

Languages: French (Basic), English (Native), Urdu (Native).

Interests: Statistical Methods for Data Analysis, Economics, Financial Trading