

# 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)

## PROFESSIONAL EXPERIENCE

### Ankura, Chicago, IL

10/24 – Present

*Valuation & Transaction Disputes Associate*

- Extracting, transforming, and loading 305M+ records from raw source files (TXT, CSV, DSV, XLSX) into SQL Server, creating new tables to support structured data analysis
- Performing thorough financial data analysis in Microsoft Excel, creating in-depth reports to serve as evidence in IRS tax disputes for Fortune 500 companies
- Collaborating with colleagues of diverse backgrounds, fostering teamwork, communication, and developing a positive work environment

### AGCO Corporation, Madison, WI

01/24 – 05/24

*Analytics Consultant: Consulting Capstone*

- 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

## 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.

## TECHNICAL SKILLS AND CERTIFICATIONS

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

**Certificates:** Data Analytics (Google, 2022), Data Science (IBM, 2023), Excel Proficiency (WSB, 2024), Generative AI Fundamentals (IBM, 2024), Tableau Desktop (Udemy, In-Progress), SnowPro Certification (In-Progress), AWS Cloud Practitioner Fundamentals (In-Progress)

## ADDITIONAL INFORMATION

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

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