

# HASAN KHAN

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## EDUCATION

<b>University of Wisconsin-Madison, Wisconsin School of Business, Madison, WI</b> <i>Master of Science in Business Analytics Candidate, Digital Risk Track</i> <ul style="list-style-type: none"><li>GPA: 3.65/4.0, Merit Scholarship (2023)</li><li>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</li><li>Club Membership: Graduate Business Association, Data &amp; Analytics Club</li></ul>	<b>2024</b>
<b>University of Wisconsin-Madison, Madison, WI</b> <i>Bachelor of Science in Data Science</i> <ul style="list-style-type: none"><li>Dean's List (Spring 2020, Spring 2021)</li></ul>	<b>2022</b>

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## 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.

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## 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

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

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## PROFESSIONAL EXPERIENCE

<b>Graduate Consulting Practicum, Wisconsin School of Business, Madison, WI</b> <i>Analytics Consultant; Project Sponsor: AGCO Corporation</i> <ul style="list-style-type: none"><li>Developed and optimized machine learning models in Python to identify potentially fraudulent transactions within travel and expense reports</li><li>Created interactive dashboard for auditing insights, facilitating quick identification and investigation of suspicious reports</li></ul>	<b>01/24 - 05/24</b>
<b>Wisconsin Union, Madison, WI</b> <i>Event Support Coordinator</i> <ul style="list-style-type: none"><li>Supervised 50+ musical performances, general conferences, and orientations to accommodate 300+ average attendees for high-impact, high-visibility campus events</li><li>Ensured successful event outcomes by managing pre-event logistics such as seating layout specifications, lighting needs, and sound system checks per client needs and wishes</li><li>Led six staff, managed diverse personalities, and utilized leadership/interpersonal skills to create positive environment</li></ul>	<b>08/21 - 12/21</b>
<b>HomeGoods, Wheaton, IL</b> <i>Merchandise Associate</i> <ul style="list-style-type: none"><li>Led diverse team of five staff in store organization, ensuring effective completion of assignments and next day readiness</li><li>Achieved exceptional customer satisfaction, engaging ~ 30-60 customers per hour while maintaining swift and accurate pace during checkouts</li><li>Educated customers about various store products and directed them to relevant locations, enhancing customer experience; received strong positive feedback from store management on personal efforts</li></ul>	<b>05/21 - 08/21</b>

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## ADDITIONAL INFORMATION

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

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