# ASHWANI MITTAL

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## EDUCATION

**Master of Science: Financial Technology & Analytics** (Academic Excellence Scholarship)                                       **08/2024**
The University of Texas At Dallas – Richardson, TX
**PG Diploma in Finance Management**                                                                                             **08/2022**
Himalayan University, India
**Bachelor of Computer Applications**                                                                                            **05/2021**
Veer Narmad South Gujarat University, India

## SKILLS

- **Tools:** MSSQL, MySQL, Python, Tableau, Excel, Power BI, PowerPoint, Automation Anywhere
- **Techniques:** Data analysis, Financial Analysis, Data Visualization, Dashboarding and Storytelling, Market Research, Process Improvement,  Risk Analysis, Ad-hoc Analysis, Database Management, Database Querying, Predictive Analysis
- **Certifications:** IBM Data Science Professional, IBM Data Analyst Professional, IBM Data Engineering Professional, Complete Financial Analytics 2023(Udemy), Google Cybersecurity Professional

## PROJECTS

**Exploratory Data Analysis: Market Research & Customer Segmentation:**
- Conducted market share analysis on domestic car sales data of 26 US automobile manufacturers using SQL and Tableau to create interactive dashboards
- Developed actionable strategies to drive sales and inventory turnover based on insights derived from sales by segment data and exploratory data analysis
- Applied predictive analytics to identify purchase trends and opportunities for optimizing market penetration.

**Data Analysis: Chicago Public Data:**
- Utilized SQL to analyze datasets from the Chicago Data Portal: Socioeconomic Indicators, Public Schools, and Crime Data
- Answered key questions related to crime statistics to find areas with most crimes among 77 communities in Chicago using SQL queries

**Data Analysis: Coffee Orders Data:**
- Conducted analysis of coffee orders data using Excel, comparing sales by country, roast type and customers over time
- Created dashboard in Excel to present key insights about top 3 countries by sales, top 5 customers and total sales for each coffee type using the orders data

**Machine Learning: Credit Risk Modeling, Write-off Prediction:**
- Developed Python-based Neural Networks and XGBoost ML Models on 1.5M records and achieved high predictive accuracy with AUC score of 0.942
- Implemented conservative and aggressive default prediction strategies, projecting revenue impacts up to $1.643B and presented actionable insights for improved risk management and strategic decision-making

**Machine Learning: House Sales in King County USA, Price Prediction:**
- Developed Python-based ML Model to analyze and predict housing prices using attributes such as square footage, number of bedrooms, number of floors
- Predicted prices based on Multi Linear Regression and refined the model using Ridge Model to achieve R-square score of 0.70, indicating a high predictive accuracy

**Financial Analysis: Financial Reporting & Investigations**
- Developed Python program using SEC API for horizontal and vertical analysis of Southwest Airlines' 10-K and 10-Q SEC filings
- Extracted and analyzed financial data to identify trends and insights crucial for strategic decision-making

## WORK HISTORY

**Financial Analyst Intern, UTDSOM Investment Corporation, Dallas,TX**                                                           **06/2024 - 08/2024**
- Developed automated SEC filing parser using python to scrape and parse 10-K filings and metadata of over 5000 firms to create a database for FY2023
- Analyzed participation of firms in reverse factoring and details of their disclosed obligations under ASU 2022-04 using Natural Language Processing
- Created a SQL Database of over 5000 firms and identified 67 firms that disclosed their reverse factoring obligations as per ASU 2022-04

**Financial Analyst, ATM Capital, India**                                                                                        **01/2021 - 08/2022**
- Analyzed stock market data with Excel, Python, and SQL, leading to a 15% boost in client portfolio returns and a 10% risk decrease
- Designed and executed financial models for strategic investment advice, driving more than $1M in yearly brokerage revenue
- Produced Weekly Business Review (WBR) and regulatory financial reports using SQL, maintaining SEBI compliance
- Developed interactive dashboards with Power BI to present data insights effectively to clients and stakeholders

**Business Data Analyst, Sonal Gems, India**                                                                                     **04/2015 - 06/2018**
- Centralized the vendor information system resulting in improved data accuracy and retrieval efficiency by 15%
- Developed automated invoicing processes in Excel and SQL, reducing errors by 20% and speeding up processing time by 30%
- Generated monthly financial reports (P&L statements, balance sheets, cash flow statements) using advanced Excel and SQL, increasing financial reporting accuracy by 10%
- Conducted trend analysis and presented insights through dashboards for strategic decision-making, leading to 12% cost management improvement and 10% market share increase
- Designed and maintained interactive Tableau dashboards for tracking KPIs, highlighting gaps in sales trends and analyzing the sales of top-performing products.
- Created ad-hoc reports and visualizations and conducted various subject matter research as assigned by management