HUSSEIN SHATNAWI

hussein_shat@yahoo.com| +1 (430)280-4725| https://www.linkedin.com/in/husseinshatnawi

SKILLS

Programming: Python, MySQL Workbench, R Studio, SQL Server, SQL Server Management Studio (SSMS), SSAS, SSIS
Software: Microsoft Power BI, Tableau, Visual Studio, Microsoft Excel, Jira (Agile methodology), SPSS, Delta ERP
Modeling Skills: Forecasting, Simulation, Optimization, Data Modeling, Regression, K-Means, Decision Tree, Statistical Analysis

EXPERIENCE

Data Research Analyst (Graduate Assistant) – Texas A&M University Commerce   **Jun 2022 - Present**

- **Data Mining:** Applied Python for EDA techniques to identify patterns and trends within the accident data in New York, captured $1.2 billion in monetary losses and 1,135 fatalities in 2022.
- **Statistical Analysis:** Conducted in-depth statistical analysis using Python to identify the most related attributes to accidents, with the goal of reducing car accidents by 15%.
- **Data Visualization:** Created a dashboard using Tableau to present the findings to professors and researchers, reducing the required time to tell the data story from 3 hours to 10 minutes.
- **Training:** Trained students on implementing Python to perform the explanatory data analysis techniques, and then to visualize the results by Power BI, boosting the class performance by 18%.

Operation Analyst Engineer - Jordan Phosphate Mines Company   **Mar 2018 - Dec 2021**

- **Data Warehousing**: Leveraged SQL Server to integrate data from various sources, to develop databases for monitoring equipment performance patterns and trends, achieving a remarkable 22% reduction in downtime.
- **KPIs:** Utilized inventory metrics, time-series data, data marts (SQL Server), and Power BI to forecast spare parts requirements, generating purchase order waves that effectively reduced shipping costs by 9%.
- **Data Analysis:** Analyzed tender bids averaging up to $500,000 per bid, performing cost analysis in Excel to identify cost-effective project completion options, ultimately reducing project costs by 11% and improving profitability.
- **Stakeholders Engagement:** Orchestrated cross-functional collaboration and delivered data-driven insights to a panel of directors, leading to a 30% reduction in project review cycle times and an accelerated decision-making process.

Maintenance Engineer – Jordan Phosphate Mines Company   **Aug 2014 - Mar 2018**

- **Inventory Management:** Directed daily purchase orders up to $1M via Delta ERP for seamless operation of three production units, ensuring a two-year supply of essential spare parts was available.
- **Maintenance Expertise:** Led a 10-person maintenance team, optimizing process efficiency to fulfill 18 daily orders**.**
- **Project Management:** Teamed with two generator experts from Siemens and a 12-person maintenance team to replace two electric turbo-generators (22 MW each) at the Utility Plant. Optimized power generation capacity by 400%.

PROJECTS AND ACHIEVEMENTS

Hackathon 2023 Competition - First place   **Mar 2023**

- **Data Preparation & Transformation:** Deployed Python for thorough data preparation and transformation, including data mining and correlation analysis, ultimately enabling the preparation of ~ 900K records for regression analysis.
- **Forecasting:** Developed a regression model in Python to forecast the fair trade-in price of cars, helping users make better choices about buying and selling used cars. Achieved 86% model accuracy.
- **Business Optimization:** Presented a Tableau dashboard for the suggested UI, reducing purchasing complexity and increasing buyer engagement, targeting 71% of the users.

Hackathon 2022 Competition - First place

- **Exploratory Data Analysis:** Employed Python for feature engineering, data mining, and data cleaning, to determine the success factors of running pharmaceutical stores, analyzing ~ 2M records.
- **Data Visualization:** Harnessed Power BI to perform ETL and data analysis, present the market analysis findings, and map the business strategy for a simulated pharmaceutical store to make a $1.5 M profit.

LEADERSHIP

- **Winner** of ISACA North Texas 6th Annual Competition

EDUCATION

- **M.S. Business Analytics,** Texas A&M University-Commerce (TAMUC) - US
- **B.S. Mechanical Engineering,** Jordan University of Science and Technology (JUST) - Jordan