Mustafa Aslamy

Data Analyst

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EMPLOYMENT EXPERIENCE

Data Analyst   Apr 2022 - Present

Quality Homes LLC   Bloomfield, NJ

- **Data Extraction and Analysis:** Scraped data from Zillow and Redfin APIs to analyze real estate trends and property values. Utilized Python and SQL for data manipulation and to create actionable insights, enhancing cash flow by 6-8% per property.
- **Data Cleaning and Financial Reporting:** Employed Pandas and Numpy for thorough data cleaning and tracking of financial metrics across 50+ properties. Developed financial reports and performance dashboards using Tableau and Excel, which improved profit allocation strategies by 12%.
- **Predictive Analytics and Modeling:** Applied linear and logistic regression models in Scikit-Learn to predict financial outcomes and optimize resource allocation. Generated detailed reports and visualizations in Tableau to support strategic decision-making and financial forecasting.
- **Database Management and Optimization:** Managed and optimized SQL databases for storing and querying property and financial data. Implemented efficient data retrieval processes and ensured data integrity, streamlining reporting and analysis workflows.

Controls Design Engineer   Apr 2020 - Apr 2022

Siemens Industry   Florham Park, NJ

- **Collaborative Automation Design:** Worked with over 20 project managers and sales representatives to develop and deploy automation sequences using Siemens TIA Portal. Enhanced operational efficiency by 15% through effective teamwork and process optimization.
- **Enhanced Control Systems:** Utilized SQL for database management and Tableau for visualizing control system performance metrics, leading to a 20% improvement in system reliability and a more data-driven approach to system optimization.
- **Technical Leadership and Documentation:** Created detailed control wiring schematics and managed workflow documentation using Excel for tracking project milestones, improving project turnaround time by 10% and ensuring precise integration with team efforts.

Photovoltaic Design Engineer   Oct 2019 - Apr 2020

Advanced Solar Products   Flemington, NJ

- **Team-Driven System Design:** Collaborated with cross-functional teams to design and optimize photovoltaic systems using AutoCAD and Excel for project planning and cost analysis, achieving a 12% reduction in project costs.
- **Efficiency Improvements:** Employed AutoCAD for designing photovoltaic systems and used Tableau to analyze and visualize energy output and system efficiency, resulting in an 18% increase in overall system performance.
- **Data-Driven Cost Analysis:** Analyzed photovoltaic designs and financial data using SQL and Excel, optimizing wire sizing and voltage calculations to enhance energy output by 10% and achieve cost savings for residential and commercial projects.

ACADEMIC PROJECTS

- **Real Estate Price Prediction** | Github Link
  - Developed a website using Flask and scikit-learn to predict home prices in Bangalore. Implemented data cleaning, outlier removal, dimensionality reduction, feature engineering, and k-fold cross-validation. Deployed the model on AWS EC2.
- **Celebrity Image Classification** | Github Link
  - Built a web application for matching uploaded images with a celebrity database using OpenCV for face detection and wavelet transforms. Applied SVM, logistic regression, and random forest models, fine-tuning with GridSearchCV.
- **Sorting Visualizer** | Github Link | Web App Live
  - Created a React app to visualize sorting algorithms. Generated random value arrays displayed as bars and sorted using the merge sort algorithm, illustrating the process from unsorted to sorted states.

EDUCATION

B.S. in Mechanical Engineering, minor in Applied Mathematics   Sep 2014 - May 2019

NJIT - Newark College of Engineering   Newark, NJ

- GPA: 3.1/4.0
- Relevant Coursework:
  - Linear Algebra | Calculus I, II & III | Engineer Probability & Statistics | Differential Equations | Partial Differential Equations | Vector Analysis
- **IBM Machine Learning Professional Certificate, Stanford Machine Learning Certificate, Duke Java Programming Professional Certificate**