ABDUALLH RAWAQ

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Cairo, Egypt, (+20) **1144516865**

DATA SCIENTIST

Business analyst • Data analyst • Business Intelligence • Machine Learning Engineer • MLOPS

PROFESSIONAL EXPERIENCE

Upper Egypt for Food Processing and Land Reclamation **Nov 2022 – Nov2023**

Performance Analyst

- Follow up and analyze daily reports, measure the performance of factories and agricultural production, and prepare weekly reports to follow up on activities and work.
- Providing analyzes of performance and business metrics to stakeholders, providing forecasts for overall production and revenue, and contributing to the planning budget.
- Conducting quantitative and qualitative analysis, monitoring budget planning and forecasting, and understanding the financial impact of changes, Enterprise resource analysis and planning.

UPWORK **Jan 2021 - present**

Data Scientist Freelancer

- Deployed a recommendation engine to production to conditionally recommend other menu items based on past order history, increasing average order size by 5%.
- Spearheaded the implementation of business intelligence tools, enabling managers to make data-driven decisions based on actionable insights tailored to specific business requirements, resulting in a 26% improvement in overall operational efficiency.

MOSTAQL **Jul 2020 - Sep 2022**

Data Analyst Freelancer

- Built out the data and reporting infrastructure from the ground up using Tableau and SQL to Provide real-time insights into the product, marketing funnels, and business KPIs.
- Conducted in-depth client interviews to identify key information needs and translate them into customized dashboards, resulting in a 20% reduction in client reporting time and a 30% increase in data accessibility and usability.

EDUCATION

Bachelor, Computer Science, Beni Suef University, Egypt **Sep 2019 - Jul 2022**

- Excellent Degree: 98% in Graduation Project (Construction Works APP)

Professional Diploma (CDSP), Data Science, EPSILON AI Institute **Mar 2021 - Dec 2021**

- Winner of award, 2nd Best Graduation Project.
- **Credential ID:** 100613-21-EG

INTERNSHIP EXPERIENCE

Data Science Intern, **EPSILON AI Institute, Hybrid** **Dec 2021 - Mar 2022**

- Conducted business and functional analysis to develop and integrate financial applications.
- Analyzed and developed web-based applications.
- Produced business reports with advanced SQL queries.

Data Scientist Intern, **The Sparks Foundation, Remote** **Sep 2021 - Nov 2021**

- Analyze Huge data, both structured and unstructured, Applied solutions and strategies to business problems.
- Defined industry trends and translated them into optimal solutions (Python)
- Predict Sales for Walmart stores considering the impact of promotional markdown events.

Achievements: successfully completing a challenging project, receiving positive feedback from supervisors

Key Learnings: new technical skills, industry knowledge, problem-solving approaches, professional growth.

SKILLS, TECHNOLOGIES

Programming Languages: python, R, SQL, DAX.

Data Analysis Tools: Tableau, Power Bi, MATLAB, MS Excel (VBA), SAS.

Data Visualization: Dash, plotly, Bokeh, Seaborn, Matplotlib.

Data Manipulation: Pandas, NumPy, SciPy.

Machine Learning Frameworks: TensorFlow, Spark, SK-Learn, Keras, PyTroch.

MLOPS Tools: Azure, Vertex Ai, Aws Es2, IBM Watson Studio, Heroku, Streamlit, Flask, FastApi.

Technical Skills: Hypothesis Testing, Time Series Analysis, Statistics, Linear algebra, Calculus, Discrete math.

Tools: Jupyter Notebook, Git, Google Collab, Spyder, Kaggle**,** Git kraken.

Domain Knowledge: Telecommunication, E-Commerce, Insurance, Hospitality, Agriculture, construction, Finance.

PROJECTS

- **Project Title**: **Vitruvius construction Works App (Graduation Project).** Link to project
  Project Description: construction works app created to solve real issues in construction and house building process.
  Role and Contribution: As a Team-led and Data Scientist responsible for Data Science Agile process such as Data collection, data cleaning, data exploration, model building, explaining models, model deployment, feature Engineer, adjusting parameters, and measuring performance and accuracy of the model.
  Results and Impact: Achieved an accuracy of 93% and an AUC-ROC score of 0.88 on the test dataset.

- **Project Title**: **Classification of agricultural insect pests of tomato crops**. Link to project
  Project Description: Deploying a machine learning model to classify 12 different types of the most common pests.
  Role and Contribution: I led the data collection, cleaning, preprocessing, and feature engineering tasks, Building the model, adjusting parameters, and measuring performance and accuracy of the model.
  Results and Impact: Achieved an accuracy of 89% and an AUC-ROC score of 0.82 on the test dataset.
  Skills Demonstrated: Applied data preprocessing techniques using Python and NumPy. Developed and optimized machine learning models using TensorFlow. Conducted feature engineering and selection to improve model performance.
  Collaborative Efforts: collaborated with a team of agricultural Engineer, to gather requirements, share insights.

- **Project Title: Customer Churn Prediction for a Telecom Company "Orange"**. Link to project
  Project Description: Developed a machine learning model to predict customer churn for a Telecom company, with the goal of reducing customer attrition and improving customer retention strategies.
  Role and Contribution: I led the data preprocessing and feature engineering tasks. I implemented predictive models, including logistic regression, random forest, and gradient boosting, to identify key factors influencing churn.
  Data and Techniques: Utilized a dataset containing customer demographic information, Standard Scaler, grid search, stack.
  Results and Impact: Achieved an accuracy of 95% and an AUC-ROC score of 0.86 on the test dataset.
  Skills Demonstrated: Applied data preprocessing techniques using Python and pandas, Developed and optimized machine learning models using scikit-learn. Conducted feature engineering and selection to improve model performance.

- **Project Title**: **Software Engineer Salary prediction "Stack Overflow Survey".** Link to project
  Project Description: Deploying a machine learning model to predict Software Engineer Salary based on important features.
  Role and Contribution: I led the data gathering, data preprocessing and feature engineering tasks. I implemented predictive models, including KNNR, LR, RF, SVR, DT, and gradient boosting, grid search techniques.
  Data and Techniques: Utilized a dataset survey from stack overflow 2021, containing Engineer demographic information.
  Results and Impact: Achieved an accuracy of 82% and an AUC-ROC score of 0.80 on the test dataset.

- **Project Title: Customer E-commerce Data Analysis & Machine Learning Model.** Link to project
  Project Description: analyze data and deploying a machine learning model to predict Yearly Amount Spent in website.
  Role and Contribution: I led the data preprocessing and feature engineering tasks. I implemented predictive models, including Linear Regression, KNeighborsRegressor, RandomForestRegressor, XGBRegressor.
  Results and Impact: Achieved an accuracy of 98% and an AUC-ROC score of 0.84 on the test dataset.

CERTIFICATIONS: (verification & Resources) Available Under Request

- Get started building with Power BI, **Microsoft**, Feb 2021(link)
- Database Fundamental, **Information Technology Institute (ITI),** Mar2021
- Implementing Azure Infrastructure Solutions, **Microsoft,** Sep2021 (link)
- Artificial Intelligence Fundamental, **FutureLearn,** Aug2021 (link)
- Machine Learning for Business Challenges, **AWS**, Feb 2021 (Credential ID E-E0J39V)
- Deploy Apps Using DevOps, **IBM,** April2021 **(**link**)**
- Principal of sustainable software engineer, **Microsoft**, Jan2022 (link)
- Perform Cloud Data Science with Azure Machine Learning, **Microsoft,** Apr2022 (link)
- ML for Business & Technical Decision Makers, **AWS**, Dec2022 (link)
- Advanced SQL, **Kaggle**, Feb2022
- Learning Python, **LinkedIn**, Mar2022 (link)
- Data Science & Analytics, **IBM,** Apr2022 (link)
- Intermediate Machine Learning, **Kaggle,** Feb2022
- Communicating Insights, **IBM,** May2022 **(**link**)**
- Monitor Your App Availability DevOps, **IBM,** July2022 (link)
- IBM Watson Studio, **IBM**, Nov2022 (link)
- Data Curation for SAS Data Scientists, **SAS**, Sep2022 (link)
- Machine Learning Essentials for Business and Technical Decision Makers, **AWS**, July2022 (link)
- Data Science Capstone: Real World Machine Learning Decisions, **AWS,** Feb2022
- Explore and analyze data using Python, **Microsoft,** Feb2023 **(**link**)**
- Machine Learning Operations (MLOPS), **Coursera,** Aug2023 (link)
- Business Model Innovation, **Egypt Innovate**, April2023

LANGUAGES: **English**: B2, **Arabic**: Native