MARYAM SAYED

- Linked In
- Git Hub
- Kaggle

Junior Data Scientist

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A passionate data scientist with solid experience in data analysis, modeling, and deriving actionable insights from complex datasets. Enthusiastic and self-motivated, with a deep interest in advancing the fields of data science and machine learning. Skilled in executing data-driven solutions using Python libraries, machine learning, and deep learning techniques to transform data into meaningful insights that drive business decisions. Ready to excel in a big data environment.

Internships

Data Science Intern –in (*Technocolab software)|online* **May 2023 to July 2023**

- Collect, process, and analyze structured and unstructured data from multiple sources.
- Develops high-performance machine learning models and algorithms for content moderation (Guard Model).
- Deploying the ML models for use in the [Social-Profile-in-Online-P2P-Lending]. Co
- Leadership experience and Different techniques related to ML and Data preprocessing.

Projects

Boston_House_Price_Prediction- Code Soft (Data science intern) Aug 2023 – Sep 2023

Objective: Use data science to predict house prices in Boston with high accuracy.

- Data Validation: Cleaned and validated data for missing values and inconsistencies.
- Exploratory Analysis: Conducted visual analysis to understand key variables affecting house prices.
- Model Development: Selected and fine-tuned models, with the best one predicting house prices effectively.
- Model Evaluation: Evaluated model performance using appropriate metrics (RMSE, MAE).
- Business Metrics: Defined how model predictions align with business goals, such as investment decisions.
- Hypothesis Testing: Tested hypotheses on the relationship between features (e.g., number of rooms) and house prices.

SYNC - Machine Learning Engineer Intern Jul 2023 – Aug 2023

Objective: Apply machine learning techniques to improve predictive models and enhance data-driven solutions.

- Data Preprocessing: Cleaned and transformed raw data for model training, addressing missing values and outliers.
- Feature Engineering: Created new features and optimized existing ones to improve model accuracy.
- Model Development: Developed machine learning models (e.g., linear regression, decision trees) to solve business problems.
- Model Evaluation: Assessed model performance using appropriate metrics (e.g., accuracy, precision, recall).
- Optimization: Fine-tuned hyperparameters to enhance model performance and minimize overfitting.
- Collaboration: Worked with cross-functional teams to deploy models and integrate them into production systems.

Education

Bachelor degree of Computer and Information Science | Ain Shams University **Oct 2021 - June 2025**

Liver Fibrosis Classification Project

Oct 2023 – Jan 2024

Developed a machine learning model to classify liver fibrosis stages based on patient medical data. The project utilized advanced techniques for data processing, feature selection, and model optimization. My Responsibilities:

- Extracted and preprocessed medical data from various sources and transformed it for use in machine learning models.
- Built and fine-tuned classification models using machine learning algorithms (e.g., Random Forest, SVM, and XGBoost).
- Evaluated model performance using appropriate metrics (e.g., accuracy, precision, recall).
- Implemented model optimization techniques to improve classification results and reduce overfitting.
- Worked within an Agile/Scrum framework to ensure efficient project development and timely delivery.

Skills

- Programming & OOP
- Data Structures & ALgo
- Statistical Analysis
- Data visualization
- Machine learning
- Problem solving
- Debugging skills
- Communication skills
- Storytelling
- Teamwork

Tools & Software

- Python, Jupyter notebook
- NumPy, Pandas, SciPy
- Matplotlib, Seaborn
- Scikit -learn, TensorFlow
- open -cv , Git & GitHub

Volunteer Experience

Mentor Academy Learning May 2023 – July 2023

- Assisted in data collection, cleaning, and preprocessing tasks to ensure data quality and integrity.
- Conducted exploratory data analysis to uncover meaningful insights and identify patterns.
- Gained valuable mentoring and leadership experience, guiding students and providing clarification on concepts.
- Explained complex machine learning topics in an accessible way to help students understand key concepts.

Google Developer Student Clubs - Al-Azhar University October 2023 – Mars 2024

- Developed communication and presentation skills while mentoring students on machine learning and Python.
- Mentored students, offering guidance on how to approach machine learning problems and projects.
- Assisted students in gaining a deeper understanding of ML concepts and Python applications.