YEHIA FADLY

Data Science Student | Software Engineering Minor

CONTACT

+20-1210283150

yehia.fadly@gmail.com

Cairo, Egypt

github.com/Yehia3A

linkedin.com/in/yehia-fadly

SKILLS

- Python
- JS/TS
- Flutter
- Data Structure & Algorithms
- Power BI
- Java
- SQL
- MongoDB/Cassandra
- Project Planning
- Data Integration
- SQL
- Data Analysis
- AWS (Basics)
- Git

LANGUAGES

- English - Professional
- Arabic - Fluent

EDUCATION

German International University, Cairo, Egypt (2022 - Present)
Major: Data Science | Minor: Software Engineering
Relevant Coursework: Machine Learning, Data Structures, Databases

PROFILE

Data Science student at the German International University with a passion for AI, web development, and data analytics. Experienced in Kaggle competitions, I consistently solve complex problems through data preprocessing and visualization. Seeking to apply my skills in a data science internship to contribute to innovative projects.

PROJECTS

Image Captioning with Transformers Encoder-Decoder and EfficientNetV2S

- Built a multimodal model using Transformers and EfficientNetV2S to generate image captions.
- Processed datasets with Python, achieving a 0.72 BLEU score on validation set.
- Optimized feature extraction and decoding, enhancing caption accuracy for diverse scenes.

Heart Disease Prediction Pipeline With 20% Missing Data in the train & 10% in target- 1st Place (55+ Teams)

- Led a 1st-place solution in a 55+ team Kaggle competition, achieving 70% accuracy on private and public test sets.
- Applied Scikit-learn, LightGBM, XGBoost, CatBoost, and Optuna to handle 20% missing train data and 10% target data.
- Imputed missing values with KMeans, Spectral Clustering, and Fuzzy C-Means, boosting performance.
- Utilized SHAP for interpretability, aiding stakeholder decisions.

Big Data with PySpark SQL and Spark DataFrame

- Analyzed large datasets using PySpark SQL and Spark DataFrame.
- Cleaned and transformed data, improving query performance for big data analytics.
- Demonstrated scalable data processing for real-time insights.

Car Detection System with YOLO

- Developed a YOLO-based model to detect traffic signs and objects for autonomous vehicles.
- Preprocessed Kaggle datasets with Python and Ultralytics YOLO, improving mAP by 3.0%.
- Enhanced robustness with augmentation, reducing false positives by 3.0%.

Data Analysis/Engineer

- Cleaned and preprocessed diverse datasets, handled missing values and outliers, engineered features, and applied normalization and dimensionality reduction.
- Performed EDA to extract insights, visualized results with Matplotlib/Seaborn, and provided data-driven recommendations.