AHMED FARRAG

AI ENGINEER | Data Scientist

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Aspiring AI and Data Science professional with a solid foundation in data analysis, machine learning, and statistical modeling. Proficient in Python, SQL, and advanced algorithms, with experience handling large datasets and building predictive models. Adaptable and committed to continuous learning, skilled at extracting actionable insights and delivering data-driven solutions to complex business challenges.

PROJECTS

GRADUATION PROJECT (A+)

1-LUNG CANCER DETECTION

lung cancer detection using the xception model involves leveraging its deep convolutional layers and advanced architecture to accurately classify lung scans as either cancerous or non-cancerous. the xception model, derived from the inception architecture, excels in capturing intricate patterns and features from medical images, making it well-suited for analyzing complex radiological data..

2-MASK OBJECT DETECTION

this project aims to implement object detection using yolov8, a state-of-the-art deep learning architecture known for its speed and accuracy in real-time object detection tasks. yolov8 (you only look once version 8) builds upon the success of previous versions.

3- TEXT SUMMARIZATION USING NLP(T5 Model)

from meticulously preprocessing data to strategically selecting the t5 model. after implementation, fine-tuning was key to optimizing performance. now, with thorough evaluation and testing, the results speak for themselves.

4- TEXT PREDICATION USING NLP(LSTM)

text prediction with lstm models in nlp involves using deep learning to forecast upcoming words or characters in a sequence of text. lstms, specialized rnns, excel in capturing long-term dependencies in data, crucial for tasks like language modeling and text generation.

5-TITANIC CLASSIFICATION

importing the Titanic dataset, followed by data preprocessing steps such as handling missing values, encoding categorical variables, and scaling features., Two machine learning models are implemented : Logistic Regression and Decision Tree Classifier

6- Car Price Prediction

prediction model using a Random Forest Regressor. The key tasks
Addressing missing values and encoding categorical variables with one-hot encoding.
Building and fine-tuning the model with GridSearchCV.
Achieving an R^2 score of 0.94 on the test set, demonstrating high predictive accuracy

SKILLS

AI / ML Technologies: Python, TensorFlow, Keras, Scikit-learn
Data Analysis & Visualization: Power BI, Excel, Matplotlib, Seaborn
Database & SQL: MySQL

Version Control: Git, GitHub
Web Scraping: BeautifulSoup, Selenium
Soft Skills: Adaptability, Continuous Learning, Problem Solving, Communication, Team Collaboration

LANGUAGES

- ARABIC (Fluent)
- English (Proficient)

EDUCATION

- Data analysis Bootcamp with Alex the Analyst
- Bachelor of Computer Science, Modern Academy
- AI Diploma, Amit
- Power bi with Al Assaal
- ITI Database (SQL Server)