# Ahmed Hussein Ali Abdelsalam Hussein
## *Data Science Senior*

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## Education

**Faculty of Artificial Intelligence, Menofia University**
**Major: Data Science**
**Third-Year-Student**      **GPA : 3.61**

2022– 2026
Menofia, Egypt

## Projects

### -AI Project (Connect4 Game using Minimax Algorithm)

- **Technology used:** (Python, Minimax Algorithm)
- **Objective:** To develop an AI-based Connect4 game using the Minimax algorithm to enable the computer to play optimally against a human player.
- **Role:** Designed and implemented the game logic, integrated the Minimax algorithm for optimal gameplay, and handled edge cases for a robust gaming experience.
- **Outcome:** Created an interactive Connect4 game with an AI opponent that consistently challenges the player, demonstrating advanced understanding of game theory and algorithm implementation.
- **Link:** GitHub Repository

### -Diabetes Analysis Project

- **Technology used:** (Python, numpy, pandas, matplotlib)
- **Objective:** To analyze and visualize data to understand the relationship between diabetes and various factors such as age, BMI, and blood pressure.
- **Role:** Conducted data preprocessing, created insightful visualizations to highlight trends, and performed correlation analysis to determine significant factors affecting diabetes.
- **Outcome:** Developed a comprehensive report that identified key factors influencing diabetes, enhancing understanding for healthcare decision-makers.
- **Link:** GitHub Repository

### -Kidney Disease Analysis Project

- **Technology used:** (Python, numpy, pandas, seaborn, scikit-learn, matplotlib)
- **Objective:** To analyze and visualize data to understand the relationship between kidney disease and various factors such as age, blood pressure, and other medical indicators.
- **Role:** Preprocessed data by handling missing values, analyzing features, and identifying duplicates Created visualizations to highlight trends and performed correlation analysis to identify key factors affecting kidney disease.
- **Outcome:** Developed a comprehensive analysis and visualization framework that identified key factors influencing kidney disease, providing actionable insights for healthcare decision-making.
- **Link:** GitHub Repository

### -Sentiment Analysis (deep learning Project)

- **Technology used:** (Python, scikit-learn, matplotlib, tensorflow, textblob, wordcloud, streamlit)
- **Objective:** To analyze customer reviews, classify their sentiment, and visualize key insights language processing and machine learning techniques.
- **Role:** Preprocessed text, built sentiment classification models, visualized insights, and deployed a streamlit app.
- **Outcome:** Developed a sentiment analysis tool capable of classifying customer reviews with high accuracy. Provided users with interactive visualizations and actionable insights into customer feedback.
- **Link:** GitHub Repository

# -Time Series Forecasting for household Power consumption project

- **Technology used:** (numpy, pandas, matplotlib, statsmodels, itertools, streamilt, plotly)
- **Objective:** To predict the power consumption for a given period of time based on time series data.
- **Role:** EDA and statistical analysis for Discovering whether the data is stationary or not.
- **Outcome:** visualized Power consumption for specific time with line plots and other graphs
- **Link:**GitHub Repository

# -Adventureworks Database Analysis Using Power Bi

- **Technology used:** (Power bi)
- **Objective:** To Analyse Sales For Different Categories, Products, Regions, Sales Persons.
- **Role:** Developed an end-to-end Power Bi Dashboard on AdventureWorks Database, including ETL, star-Schema Modeling, Advanced Dax and Interactive Reports to deliver Actionable sales Insights.
- **Outcome:** Delivered an interactive BI solution that identifies top products, regional performance issues, and growth.
- **Link:**Dashboard

## TRAINING / COURSES

**Udemy : Python Crash Course: Dive into Coding with Hands-On Projects**
- https://www.udemy.com/certificate/UC-92cbc004-7a72-4006-b2d1-1b140825e74a/

**Udemy : Data Manipulation in Python: Master Python, Numpy & Pandas**
- https://www.udemy.com/certificate/UC-6b44279e-dbef-4527-9759-cdcc1055be1d/

**Great Learning : SQL for Data Science**
- https://drive.google.com/file/d/1qsvnzU-oFibYcPBWa7rW66iLfYq19KUf/view?usp=drive_link

**Udemy : Introduction to Database Management Systems**
- https://www.udemy.com/certificate/UC-d9edac6d-57bf-4801-8d86-3f1523215a9c/

**Udemy : The Complete Microsoft SQL Server Course: From A to Z**
- https://www.udemy.com/certificate/UC-1a81deaa-f18e-422f-9215-2d89ed6566fa/

**Udemy : Microsoft Excel - The Complete Excel Data Analysis Course**
- https://www.udemy.com/certificate/UC-bf21b576-5d96-419a-950e-c482fbd5f80c/

## Skills

- C++, Python, ML, SQL, Excel, Data structure, PowerBi, Github, Cmd, Linux,Operating Systems

## Internships

- **Data Science Internship at Cognorise Infotech**
- **Machine Learning Internship at Prodigy Infotech**
- **Data Science Internship at CodeAlpha**
- **Commercial International Bank (CIB) Internship**
- **Eyooth Data Analytics Bootcamp**

## Interested In

- Data Science
- Data Analysis
- Data Visualization
- Machine Learning
- Image Processing
- Deep Learning
- Artificial Intelligence
- Computer Vision
- Natural Language Processing