NOUR-ELDEEN ANWAR MOHAMED

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SUMMARY

Skilled Data Scientist proficient in Python and specializing in Machine Learning (ML) and Deep Learning (DL). I am seeking a challenging role that provides growth opportunities, allowing me to leverage my analytical abilities and technical expertise to drive data-driven decision-making.

SCHOLARSHIP

AI-Samsung Innovation Campus (SIC) **(Jul 2024 - Oct 2024)**

- Learned Python fundamentals, control structures, data types, and file handling.
- Acquired knowledge in probability, statistics, and linear algebra for data analysis.
- Developed skills in ML algorithms (regression, classification, clustering), ensemble methods, and model evaluation techniques.
- Worked with neural networks (ANN, CNN, RNN) using TensorFlow and Keras.

Data Analysis-My Communication **(Jun 2023 - Aug 2023)**

This comprehensive training has equipped me with the skills and knowledge needed to effectively analyze data using Power BI, enabling me to derive valuable insights and make data-driven decisions.

EDUCATION

(Oct 2022 - 2025)

Bachelor of Data Science – Alexandria University This program has equipped me with the skills to analyze data effectively using Python, enabling me to derive valuable insights and make informed business decisions.

CERTIFICATIONS

Data Science & Analytics:

- AI – Samsung Innovation Campus (SIC)
- Stanford University (Machine Learning) – Coursera

Data Science & Analytics:

- egFWD Data Analysis
- Google Data Analytics – Coursera
- Data Analytics – My Communication

Web Development:

- egFWD Web Developer

PROJECTS

Superstore Sales Analysis

Analyzed the Superstore Sales dataset, focusing on key business areas like:

- Impact of discounts on profitability
- Regional sales distribution
- Product category performance

Real-Time Violence Detection (CNN-based CCTV Classification)

Developed a deep learning model to detect violent activity in CCTV footage using a custom Convolutional Neural Network (CNN).

- Preprocessed and augmented an image dataset with labeled "Violence" and "NonViolence" classes using ImageDataGenerator
- Built a CNN with Conv2D, MaxPooling2D, Dropout, and Dense layers using TensorFlow/Keras
- Trained the model on a large dataset of CCTV frames, achieving ~90% validation accuracy
- Visualized performance metrics and saved the trained model for real-time deployment (violence_model.h5)
- Designed for smart-city applications such as surveillance monitoring and public safety

Houses_Price

- Preprocessed a complex dataset by handling missing values with advanced imputation techniques and removing non-informative features, setting up high-quality data for model training.
- Built and evaluated regression models(RandomForestRegressor and GradientBoostingRegressor) to predict house prices, using metrics like R^2 score to assess model accuracy and guide improvements, achieving data-driven insights for optimal model performance.

Bellabeat -Case Study with R

- Conducted comprehensive exploratory data analysis (EDA) using R, employing visualizations to uncover patterns and trends in user behavior and health metrics, enhancing the understanding of factors affecting product engagement.
- Developed actionable insights from data findings that informed Bellabeat's marketing strategies and product development, demonstrating the ability to translate data analysis into strategic business recommendations.

TECHNICAL SKILLS

- Machine Learning & Deep Learning: Scikit-learn, Keras,TensorFlow, CNN, LSTM, model evaluation, regression, classification
- Data Analysis : Pandas, NumPy

ADDITIONAL INFORMATION

Familiar :

- Data Structures
- Algorithms
- R (Programming Language)
- Microsoft Power BI
- SQL and Database Management