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SUMMARY

An ambitious and driven student with a passion for data science, actively seeking opportunities to apply theoretical knowledge in practical settings, gain hands-on experience, and contribute to innovative projects while collaborating with mentors and peers in the dynamic field of data science.

EXPERIENCE

Microsoft Machine Learning Engineer
Digital Egypt Pioneers Initiative - DEPI **April 2024 - Present**

- I have served as a Microsoft ML Engineer intern, where I applied my expertise in machine learning and cloud computing. During my internship, I utilized Azure's powerful tools and services to develop, deploy, and manage machine learning models. My experience includes working on end-to-end machine learning pipelines, optimizing model performance, and leveraging Azure's scalable infrastructure to deliver impactful solutions. This role enhanced my ability to work with cutting-edge technology and further fueled my passion for machine learning and cloud-based solutions.

Artificial Intelligence Internship
Samsung Innovation Campus **July 2024 - October 2024**

- I participated in the Samsung Innovation Campus 2024 Artificial Intelligence course, where I gained in-depth knowledge and hands-on experience in AI technologies. Through this program, I developed and refined my skills in machine learning, deep learning, and data analysis, working on real-world projects that demonstrated the practical applications of AI. This experience has equipped me with a solid foundation in AI and strengthened my ability to tackle complex challenges with innovative solutions.
- Developed and trained machine learning models using Python and TensorFlow, achieving 95% accuracy in predictive analytics tasks, contributing to a 15% improvement in overall project efficiency.

AI and Machine learning Internship
ElectroPi **July 2023 - January 2024, Cairo**

- I have been a motivated and technically skilled intern with a strong background in data analysis, machine learning, and data visualization using Python. I have successfully completed several projects, including an automated data analysis tool leveraging Python and visualization libraries, a national ID card recognition system, and a sentiment analysis model using LSTM. My work is driven by a passion for solving complex problems through innovative approaches and practical applications.
- Developed and trained machine learning models using Python and TensorFlow, achieving a 15% increase in prediction accuracy by optimizing algorithms and refining datasets. .

PROJECTS

Market Segmentation with Neural Networks
ElectroPi

- Developed a neural network model for market segmentation, analyzing customer data to identify distinct groups based on purchasing behavior. This enabled targeted marketing strategies and provided actionable customer insights.

National ID Card Recognition
ElectroPi

- Built a National ID card recognition system using computer vision techniques to extract and process information from scanned ID cards. The system automated data extraction, improving accuracy and efficiency in identity verification processes.

Amazon Reviews for Sentiment Analysis

- Developed a sentiment analysis model to classify Amazon reviews as positive or negative using natural language processing techniques. The project provided insights into customer opinions and helped enhance product recommendations based on sentiment trends.

Job Recommendation System

Samsung Innovation Campus

- Designed a job recommendation system using machine learning algorithms to match users with suitable job opportunities based on their skills and preferences. The system improved job search efficiency by providing personalized job suggestions tailored to individual profiles.

Automated Diagnostic Report Generation from Chest X-ray Images

Samsung Innovation Campus

- Developed an AI-based system for generating diagnostic reports from chest X-ray images. The project involved feature extraction using a pre-trained model and generating descriptive text using a deep learning-based captioning approach, aimed at improving the efficiency and accuracy of radiological assessments.

EDUCATION

Bachelor of Engineering ,Computer and Systems Department

Helwan University • Cairo

COURSEWORK

Supervised Machine Learning: Regression and Classification

Coursera

AI and Machine learning

ElectroPi • 2023

SKILLS

Technical Skills

Programming Languages: Python, C++, Java, SQL
Cloud & Deployment: Azure, Flask, FaskAPI, Streamlit
Data Analysis & Manipulation
Version Control**:** Git, GitHub, GitLab

Soft Skills: Problem Solving, Teamwork, Creativity, Continuous Learning, Presentation Skills, Time Management