Aya Kamal Ahmed

AI & Machine Learning Engineer
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OBJECTIVE

Results-driven AI & Machine Learning Engineer with expertise in designing and deploying high performance AI solutions. Skilled in leveraging advanced machine learning, deep learning, and data engineering techniques to solve complex problems. Proficient in Python and scalable AI systems, with hands-on experience in NLP, computer vision, and model deployment. Eager to apply innovative AI technologies to drive business impact and contribute to cutting-edge projects.

Bachelor of Computers and Artificial Intelligence | **Benha University** | **Graduation Date**: August 2024 | **GPA**: 3.5/4.0 | **Location**: Benha, Egypt

- Graduation Project: A+ (4.00/4.00)
- Specialized knowledge in Machine Learning, Deep Learning, Natural Language Processing, Computer Vision, Robotics, Transformer models, and Advanced Analytics.

PROJECT EXPERIENCE

Virtual Assistant for Visually Impaired People

- Developed an assistive technology system for visually impaired individuals by integrating neural networks and computer vision techniques to recognize objects and understand spoken commands, significantly improving the quality of life.

Weather Analysis using Machine Learning Algorithms

- Built a regression model to predict temperature variations using historical weather data, employing data exploration and preprocessing to improve prediction accuracy.

Liver Disease Patient Classification

- Designed a machine learning model to predict liver disease presence based on patient health data, enhancing diagnosis accuracy and allowing for real- time assessments.

Bank Loan Approval Prediction

- Created a machine learning model to analyze loan applications and predict approval likelihood based on historical data trends.

Anemia Disease Classification

- Developed a machine learning model to classify anemia types using patient blood test data for real-time diagnosis accuracy.

Currency Classification using Deep Learning

- Implemented a deep learning model that accurately classifies different currencies using neural network architectures.

Customer Sentiment Analysis

- Utilized NLP and machine learning techniques to analyze customer sentiment, aiding businesses in deriving insights from customer reviews.

Breast Cancer Detection using CNNs

- Built a deep learning model leveraging Convolutional Neural Networks (CNNs) to classify and detect breast cancer in medical images with high accuracy.

SKILLS

Technical Skills

- Programming: Python
- Machine Learning: Supervised Learning, Unsupervised Learning, Neural Networks, Deep Learning
- Natural Language Processing (NLP): Text Classification, Sentiment Analysis
- Computer Vision: Image Classification, Object Detection
- Data Engineering: Data Preprocessing, Feature Engineering, Model Deployment
- Data Visualization: Matplotlib, Seaborn
- Database

Soft Skills

- Problem-Solving
- Collaboration
- Communication
- Time Management
- Typing Speed and accuracy
- Computer skills
- Data Entry
- Adaptability
- Microsoft Office

CERTIFICATIONS

- **AWS Academy** | Data Engineering | May 2024
- **AI Internship** | Zewail City of Science and Technology | Jul 2023 - Sep 2023
- **Microsoft DEPI Internship** | Machine Learning Engineer | May 2024 - Sep 2024

LANGUAGES

- **English**: ● ● ● ● ○
- **Arabic**: ● ● ● ● ●