Habiba Ahmed Basuony

Machine Learning Engineer

Shoubra El-kheima , El-Qalyubia , Egypt
0habibaahmed0@gmail.com
Linkedin profile
+201210642501

Career Objective

Aspiring Machine Learning Engineer eager to apply my skills in AI and web programming within a forward-thinking tech company. I am passionate about integrating AI with web technologies to create innovative solutions. My goal is to contribute to cutting-edge projects, enhance my expertise in these fields, and grow towards impactful roles in AI-driven technology.

Education

Bachelor in Computer Science, Faculty of Computers and Artificial Intelligence, Benha University, Egypt (Expected Graduation: 2026)

- Achieved a very good grade in the first and second years.
- Participated in internships, research projects, and academic clubs.

Experience

AI Intern

DEPI (06/2024 – 12/2024)

- Created house price forecasting models using regression techniques, improving prediction accuracy for real estate data.
- Developed and implemented a data cleaning project on the Microsoft Malware dataset, applying classification algorithms and integrating MLflow for tracking and reproducibility.

Scholarship Recipient

Aspire Leaders Program (Harvard University Affiliated) (08/2024 – 11/2024).

- Participated in activities designed to foster teamwork, problem-solving, and ethical decision-making in real-world scenarios.
- Gained insights into how to lead with impact in technology-driven industries and contribute to future innovation.

Volunteer Experience

- Participant, ECPC Programming Competition (2023)
- HR, Career Explorer (2023-2024)

Projects

- **Real Estate Data Cleaning and Price Prediction (Regression)**
  Cleaned and preprocessed real estate data, removing outliers and handling missing values. Applied a regression model to forecast house prices, achieving 83% accuracy. This project deepened my understanding of data preparation and predictive modeling in the real estate domain.
- **Microsoft Malware Detection (Classification)**
  Analyzed the Microsoft Malware dataset, focusing on data cleaning and feature selection. Built a classification model to predict the presence of malware (hasDetections), optimizing model performance with classification techniques, achieving 65% accuracy.
- **Breast Cancer Chatbot (NLP & RAG Model)**
  Developed a chatbot to assist users with breast cancer-related inquiries, utilizing natural language processing and a Retrieval-Augmented Generation (RAG) model. This project enhanced my skills in applying machine learning to healthcare and conversational AI.

Skills

Technical Skills

- **Programming Languages:** Python, C++, Java.
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, MATLAB, Exploratory Data Analysis (EDA)
- **Machine Learning & AI:** TensorFlow, PyTorch; experience with Machine Learning Algorithms, supervised and unsupervised learning
- **Data Cleaning:** Experience in data preprocessing, cleaning, and wrangling for machine learning models
- **Cloud Platforms:** AWS, Google Cloud, Microsoft Azure
- **Additional Tools:** SQL, Git

Soft Skills

- **Problem-solving**: Mention in project and experience descriptions how you solved specific problems.
- **Adaptability & Teamwork**: Highlight collaboration and adapting to new challenges, especially in research and academic roles.
- **English:** Intermediate
- **Arabic:** Professional

Certifications

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