

Sayed Mahmoud Mohamed

Third-year Artificial Intelligence student at Kafr El-Sheikh University. Interested in working on data and analyzing it and applying machine learning models on it. Well versed in deep learning and its applications.

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Skills

Tools </> Python, C++, SQL 🖥️ VSCode, Jupyter 📦 Git

Packages 📊 Pandas, NumPy 📉 Matplotlib, Seaborn 🧠 PyTorch, TensorFlow, Fastai
📦 Scikit-learn, XGBoost, PyCaret, LightGBM 🖼️ OpenCv 🛠️ ROS

Soft Skills Languages: Arabic (native), English (Intermediate)

Key Skills: Excellent communication skills, Strong motivation to learn and improve

Attention to detail and scientific mindset, Rich experience of working in team projects

Projects

- Classification** **Diabetic Retinopathy Detection.** Data exploration and image preprocessing to normalize images from different clinics. Using transfer learning to pre-train CNN on a larger data set. Employing techniques such as learning rate scheduler, test-time augmentation and others [\[Kaggle\]](#) [\[GitHub\]](#) [\[Report\]](#)
France Traffic Prediction. Prepared data and EDA for data to understand it. Create Deep learning Model to Classify traffic. Evaluate Model with different metrics getting 91% Accuracy in training and 89% in Testing. [\[Kaggle\]](#)
Alpaca Classifier Using InceptionV3. Preprocess and Augment images. used a pre-trained model (InceptionV3). Fine tuned first learning layers and change classifier layers for binary classification. Getting 98.5% Accuracy in training and 94% in Testing. [\[Kaggle\]](#)
- Regression** **Predict Crop Production.** Understand the effects of climate changes on crop yields using machine learning algorithms. Optimize hyperparameters using different techniques. The main evaluation metrics was R2 score with 98.5% using gradient boosting regressor and 97.7% accuracy using random forest regressor. [\[Kaggle\]](#)
- EDA** **Terrorism.** Reading and analyzing the dataset. Cleaning the data. Exploring and visualizing data. Deriving Insights. Make dashboard with Tableau. [\[GitHub\]](#) [\[Tableau\]](#)

Experience

- 08/2022 – 09/2022 **Machine Learning with Big Data Training**, City of Scientific Research and Technological Applications.
◦ *Characteristics of Big Data and Dimensions of Scalability*
◦ *Data exploration and Preparation.*
◦ *Apply Machine Learning with Big data (Classification, Regression, Clustering, Association Analysis Models) and Evaluation* [\[Certificate\]](#)
- 06/2022 – 08/2022 **Business Intelligence Developer intern**, Information Technology Institute (ITI).
◦ *Introduction to Programming, XML Fundamentals.*
◦ *Database Fundamentals, Advanced SQL Server Programming & Administration.*
◦ *Microsoft SQL Server Business Intelligence, Introduction to Data Mining Algorithms*
◦ *PowerBI, Introduction to Cloud Computing, Introduction to Big Data*
- 05/2022 – 06/2022 **Data Science & Business Analytics Intern**, The Sparks Foundation.
◦ *Make Exploratory Data Analysis for real datasets*
◦ *Apply machine learning models on real datasets*
◦ *Created a hybrid model for stock price/performance prediction using numerical analysis of historical stock prices, and sentimental analysis of new headlines* [\[Certificate\]](#) [\[Recommendation Letter\]](#)
- 07/2021 – 10/2021 **Artificial Analyst intern**, IBM, Machine Learning, online.
◦ *Apply machine learning algorithms and build AI solutions by using IBM Watson.*
◦ *Understand and engage with advanced concepts in topics such as Artificial Intelligence, Natural Language Processing (NLP), Chatbots, Computer Vision, Watson Machine Learning.* [\[Certificate\]](#)

Education

9/2020 – 6/2024 **Bachelor of Artificial Intelligence**, Kafr El-Sheikh University, Egypt, 3.845 GPA.

Certifications

- 11/2022 **HCIP AI EI Developer**, Huawei Certified ICT professional in AI field. [\[Certificate\]](#)
10/2022 **Advanced Data Analyst**, Udacity, nanodegree program graduate. [\[Certificate\]](#)
10/2022 **Deep Learning Specialization**, DeepLearning.AI, Learned training, tuning DL models. [\[Certificate\]](#)
09/2022 **Deep Learning**, 1000 ML Engineer Initiative by Dr.Hesham Asem. [\[Certificate\]](#)
08/2022 **Machine Learning Specialization**, DeepLearning.AI, Learned training, tuning ML models. [\[Certificate\]](#)