Menna Elminshawy

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EDUCATION

Cairo University   2021 – 2025
B.Sc. in Data Science, Faculty of Computers and Artificial Intelligence   *Giza, Egypt*

SKILLS

Programming Languages: Python (numpy, pandas, matplotlib, sklearn, seaborn),Pytorch , Tensorflow, C++, Java, SQL, CQL

Tools & Technologies: ArcGIS Pro, Google Workspace,

Languages: Arabic , English

INTERNSHIPS & PROGRAMS

Internships

Data Engineer Intern   Jul 2024 – Sep 2024
AMAN Holding   *Cairo, Egypt*
Part-time Instructor   Jun 2024 – Aug 2024
iSchool (DEMI Coding Program)   *Cairo, Egypt*
Data Science Track Summer Intern   Jul 2023 – Sep 2023
BANQUE MISR   *Cairo, Egypt*

Programs

BI Development Program   Aug 2024 – Sep 2024
Information Technology Institute (ITI)   *Cairo, Egypt*
AI and Machine Learning Program   Aug 2024 – Sep 2024
Information Technology Institute (ITI)   *Cairo, Egypt*
STEM Aspire Program   Jun 2023 – Aug 2023
Dell Technologies   *Cairo, Egypt*
"Future Employee for the Digital Era" Summer Training Program   Jul 2023 – Aug 2023
Commercial International Bank (CIB)   *Cairo, Egypt*
Level 2 Problem Solving   Summer 2023
Coach Academy   *Cairo, Egypt*

ACTIVITIES & VOLUNTEER WORK

Clubs:

- Vise AI head at IEEE Cairo University (AI Committee)
- AI head at DSC Cairo University (AI Committee)
- Member at Microsoft Student Club - EELU (Data Science Committee Core Team)
- Member at GDSC Cairo University (Machine Learning Committee)
- Member at IEEE Cairo University (AI Committee)

Contests:

- NASA Space Apps Cairo Global Nominee 2024
- Dell Technology Hackathon 2024
- P&G Standout Commercial 2024
- ECPC Summer 2023

CERTIFICATIONS

- Deep Learning Specialization (Completed)
- Machine Learning Specialization (Completed)
- IEEE EUI Data Science Bootcamp (Completed)
- Huawei HCIA-AI Online Self-Learning Course 2023 (Completed)
- IBM Data Science Professional Certificate (Completed)
- Google Data Analytics (Completed)

PROJECTS

1. **Anime Data Warehouse**
   Created a star schema for the Anime Recommendation Dataset. Automated data loading and scheduled SQL jobs.

2. **Arabic Character Recognition**
   Led data preparation for image recognition; experimented with SVM, KNN, and neural networks. Provided detailed analyses.

3. **University Library Management System**
   Designed and implemented a relational database with C# , focusing on user authentication and database management.

4. **Airbnb New User Bookings**
   Addressed a multi-class classification problem using XGBoost and SMOTE to manage imbalanced datasets.

5. **Cassandra DB**
   Worked with DataStax Astra and Python for Cassandra; created keyspaces, defined column families, and explored schema design.

6. **Disease Symptoms Prediction using Apriori Algorithm**
   Applied the Apriori algorithm to identify associations in large datasets.

7. **Age Estimation Using Convolution Neural Network**
   Developed and evaluated multiple deep learning models (custom CNNs, ResNet50, and VGG16) for age estimation using facial images.

8. **Image Captioning with Deep Learning**
   Built an image captioning model using ResNet50 for feature extraction and a GRU-based decoder for generating captions from real-world images

9. **Fingerprint Authentication Project**
   Fingerprint Authentication Project using a Siamese Network, exploring loss functions and fine-tuning for accuracy.

10. **Food Classifier**
    Developed a food classification system using **EfficientNet (Keras/TensorFlow)** and **ResNet (PyTorch)**, leveraging **mixed-precision training** and **data augmentation** for efficiency. Applied **transfer learning**, **learning rate scheduling**, and **model optimization** techniques while tracking performance with **confusion matrices** and **precision-recall metrics**.