

Manar Ramadan

AI and Machine Learning Engineer

✉ manarbshr84@gmail.com ☎ 01279443230 📍 Alexandria, Egypt 🌐 Manar Ramadan 🔄 manarbshr










Education

9-month professional diploma in AI and ML program, Information Technology Institute, Alexandria Branch	10/2023 – 06/2024
Bachelor's degree in computer science, Faculty of information technology and computer science, Mansoura university	09/2018 – 07/2022

Technical Skills

Programming Languages: Python, C++, C	Data Analysis & Machine Learning : Scikit-Learn, Surprise, Pandas, Numpy
Visualization Tools: Plotly, Dash, Power BI , Tableau	Database Technologies: SQL, NoSQL using MongoDB
Deep Learning: NLP, Computer Vision, Recommender systems,GenAI (TensorFlow, PyTorch, OpenCV)	Big Data: spark, Pyspark, hadoop, kafka, Hive
Robotic process automation(RPA) UIPath studio	Other web scraping, AWS cloud, Linux, Trello, Jira, Git, GitHub

Projects

- SneakPeek** 
Developed an AI-powered online exam monitoring platform integrating facial recognition, eye movement tracking, voice detection, and object detection using frameworks like **YOLOv5**, **MediaPipe**, **OpenCV**, and **Flask**. Automated question grading and video storage ensure enhanced exam security and streamlined proctoring.
- FitBot** 
Utilize Retrieval-Augmented Generation (**RAG**) and Large Language Models (**LLMs**), such as **LangChain**, to develop a specialized chatbot for fitness and healthcare.
- Survana** 
Developed 3 sentiment analysis models as part of a survival analysis project aimed at determining the viability of new technologies. The objective was to gather sentiment from social media and tech news using **BERT** for text data, **SVM+hog** for video data, and **CNN** for audio data, achieving high accuracy in sentiment classification.
- FLY EYE(Image Captioning)** 
Developed a system that automatically generates descriptive captions for images using **NLP** and CV techniques(pre-**DenseNet201** trained model and **LSTM**) and converted text to speech.
- Head Pose Estimation for Videos** 
Developed a facial landmark detection and pose estimation system using **Mediapipe** and **scikit-learn** libraries, achieving accurate facial orientation prediction. Leveraged FaceMesh for landmark detection, **SVR** for pose estimation, and **PCA** for feature extraction.
- Home Credit Default Risk, Kaggle competition** 
Engineered features and developed **random forest** models using alternative data to predict loan repayment abilities, enhancing financial inclusion. Evaluated model performance using **AUC**.
- CineMate(Cinematic Recommender)** 
Developed a comprehensive movie recommendation system using the MovieLens dataset. Implemented user and item recommendation pages with interactive features. Utilized tools such as **Dash**, **Pandas**, and **Neural Collaborative Filtering**.
- 3C(Credit Card Data Clustering)** 
Performed customer segmentation analysis on credit card data using **K-means clustering** and **DBSCAN**. Conducted data preprocessing and exploration, determined optimal clusters, and identified customer groups with similar spending behaviors for targeted marketing strategies. Visualized insights to facilitate data-driven decision-making.
- IMDb Analysis** 
Conducted thorough exploration, preprocessing, and analysis of the IMDb dataset, resulting in a published **recommendation system** using machine learning techniques, showcased on the official Plotly website. Leveraged **Plotly Dash** for interactive dataset visualization, offering insightful recommendations generated by the system.

Additional Info

CUSTOMER SERVICES nova cosmetics clinics - Handled customer complaints and provided appropriate solutions and alternatives within the time limits. Also, increased the profit margin by exceeding the daily target.	09/2022 – 03/2023 Alexandria, Egypt
---	--

Languages

Arabic (Native) • English (Fluent)