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Youssef Sayed Ahmed

Data Scientist | Computer Vision Engineer

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Professional Experience

Data Scientist – NLP Intern Aug 2023 – Oct 2023

CashCall Company

- Stayed at the forefront of data mining and machine learning research through novel studies and monitoring industry research and best practices.
- Contributed to the data science product strategy by developing applications, new data science products, and enhancements to existing products.
- Conducted analysis and preprocessing of raw data, preparing it for prescriptive and predictive modeling.
- Integrated and cleaned data from diverse sources to improve data quality and reliability.
- Developed Arabic Chatbots, expanding language capabilities in the domain of conversational AI.

Computer Vision Engineer, Freelance Project, Apr 2022 - Sep 2022

[Quantitative-analysis-of-dopamine-by-gold-nanoparticle/Dr. Amr]

- Orchestrated a team of five professionals in the conception, development, and implementation of a machine learning model for image analysis.
- Specifically focused on predicting dopamine quantity within a solution using gold nanoparticle from images using computer vision techniques, under the guidance of Dr. Amr.
- Improved the model's precision from 83% to an impressive 98% on test datasets, highlighting expertise in optimizing algorithm performance.
- Provided technical leadership to team members, offering guidance in troubleshooting, code assessment, and optimization.
- Demonstrated proficiency in a range of technical tools, including Python, Scikit-Learn, Pandas, NumPy, TensorFlow, and Streamlit, utilizing these tools to implement various machine learning algorithms and methodologies.

Education

Bachelor of Computer Science, Artificial intelligence department, Sep 2018 –Jul 2022

Faculty of Computers and Artificial Intelligence. Cairo university. GPA = 3.03 (Very Good) Cairo, Egypt

Artificial Intelligence Coursework:

- Theoretical Foundations of Machine Learning - Pattern Recognition - Image Processing
- Supervised Learning - Unsupervised Learning - Reinforcement Learning
- Processing of Formal and Natural Languages - GANs

Graduation Project:

- Customer Service Chatbot using RASA, *Excellent*
- ARCA Chatbot engages seamlessly in Arabic conversations, adeptly addressing inquiries, offering solutions, and processing orders. Demonstrates remarkable performance with a 99% accuracy rate in intent detection and a 95% accuracy rate in generating responses.

Projects

3D Ball Tracking

- Developed a computer vision model utilizing OpenCV, C#, and Unity Engine to track the motion of a ball in a 3D environment.

Virtual Paint Using Hand

- Designed a computer vision model that tracks hand movements, enabling users to draw, write, or erase colors on a screen without the need for a physical pen.

Variance Auto Encoder

- Implemented a deep learning project that leveraged Variational Autoencoders (VAE) to generate new images from the MNIST dataset using Generative Adversarial Networks (GANs).

Face Blurring

- Created a computer vision model using OpenCV to automatically blur faces in images, ensuring privacy and anonymity.

Eye Tracking

- Developed a computer vision project for tracking eye motion and position, providing valuable insights into visual behavior.

Motion Detection

- Designed a computer vision project for detecting moving objects in video streams, offering applications in security and surveillance.

Gender Age Detection

- Created a computer vision project to accurately detect and classify the age and gender of individuals in images, providing valuable insights for various applications.

Handwritten English Letter Detection

- Pioneered a deep learning solution inspired by Google's research papers to recognize handwritten English letters using Convolutional Neural Networks (CNN). Applied as an Optical Character Recognition (OCR) tool, achieving an impressive 95% accuracy on test data.

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Courses

- AWS Machine Learning Scholarship.
- Natural Language Processing Specialization From Deep Learning AI
- Data Science and Machine Learning Bootcamp with Python (Udemy)
- Artificial Intelligence Virtual Experience Program From Cognizant.
- Deep Learning Specialization From Coursera
- Custom Models, Layers, and Loss Functions with TensorFlow From Coursera
- Data Science Virtual Experience Programme from British Airways.
- Hugging Face NLP Course
- Advanced Computer Vision with TensorFlow From Coursera

Skills

- Deep Learning
- Keras & TensorFlow
- OpenCV
- Google Cloud – GCP
- Google DialogFlow
- Pandas
- AWS
- Chatbots
- Seaborn
- RASA
- PyTorch
- LangChain
- Numpy
- Docker
- LLM
- HuggingFace
- Sklearn
- Data Structures
- SQL
- Mathmatics
- Git
- Algorithms
- Python
- Statistics
- Flask
- OOP