Mohamed Salama

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Education

Master's degree in computer Science, Mansoura University   Sep 2024 - Present

Post-Graduate Diploma, AI Professional 9-month program, Information Technology Institute   Nov 2021 - Sep 2022
Relevant Coursework: Python, Data structure, Algorithms, ML, NLP, Computer Vision

Mansoura University, B.S.. in Computer Science and Engineering   Sep 2015 - Jul 2020
Top 15% of class | Dean's List for 7 semesters

Professional Experience

Software Engineer   Aug 2022 - Present
Accord Business Group   *Cairo, Egypt*
- Developing and maintaining scalable data pipeline SAS based solutions for fraud detection and anti-money laundering, serving thousands of users daily, while also creating and monitoring dashboards and comprehensive documentation to support financial services operations.

Back End Developer (.NET) Intern   Jun 2021 - Aug 2021
Digimates   *Cairo, Egypt*
- Developed and maintained RESTful APIs using ASP.NET Core, Entity Framework Core, and JWT authentication. Gained experience in dependency injection, middleware, API testing and version control

Back End Developer (Django) Intern   Jan 2021 - Mar 2021
Webaloy   *Cairo, Egypt*
- Trained as a full stack intern and built an internal employee task time tracking system using Django which has continued to be used in their task management systems.

Relevant Projects

Store manager – Python, Django, DjangoRest   Feb 2024
- Developed a store site for displaying products, managing them through API.
- Used full CRUD functionality, permissions, user authentication, viewsets, routers and documentation.

Photo Translator – Python, TensorFlow, RNN, CNN, Transformers, NLP   Jun 2022
- Implemented an Image Caption Model responsible for generating sentences for images.
- Designed multiple models using **CNN** as a feature extractor merged with **RNN**, **attention models** and **transformers**; compared between these models using the **BLEU Score** as a metric.

Lucy – Python, Keras, CNN, LSTM   Dec 2020
- Implemented a model to translate video of Arabic sign language to text.
- Used **CNN** as an image encoder merged with **LSTM** to be able to learn order dependence in sequence.
- Achieved 98% accuracy on validation data and 91% accuracy on test data.
- As a result of this work, co-authored a paper titled, "[A vision-based deep learning approach for independent-users Arabic sign language interpretation](#)" for the *Multimedia Tools and Applications* journal.

Technical Skills

Programming languages: Experienced in Python . Familiar with Java and C#.
Frameworks and libraries: Django , .NET, Numpy, matplotlib, Seaborn, scikit-learn, TensorFlow
Other: SQL, Data structure, Algorithms, OOP, Git, Linux, ML, CNN, NLP, Transformers.

Extracurriculars and Leadership

Resala Charity: Volunteer with a national charity supporting the socioeconomically disadvantaged.   2016 - Present
Cat Reloaded: Vice President of,a nonprofit promoting computer science and technology,   Jan 2020 - Sep 2021
        including Conducting training sessions in problem solving for 40 students