

Zyad Mohamed Mousa

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Work Experience

[Rapiddata](#), Machine Learning Engineer (August 2023 - Present)

- Automated, centralized, and digitized internal business processes, enhancing operational efficiency.
- Designed and implemented scalable cloud-based solutions using Microsoft Azure and AWS, leveraging Azure AI services for data analytics and machine learning capabilities.
- Worked with AWS services such as EC2, S3, AWS Lambda, DynamoDB, API Gateway, and Textract to deploy machine learning models and manage workflows.
- Applied various NLP algorithms and Large Language Models (LLMs) like LLaMa 2 to improve the user experience on the website.
- Worked on deployment using Kubernetes (K8s) and Helm charts for scalable solutions.

Toolkits: Python, Spacy, LangChain, OpenAI, K8s, Active-pieces, ReactJs, Springboot.

[Voxel3Di](#), Computer Vision engineer (December 2023 – March 2024)

- Developed a panoramic model for dental X-ray images using custom datasets, enabling better visualization for dental diagnostics.
- Applied object detection and segmentation techniques on panoramic dental images to enhance feature extraction.
- Worked with AWS, utilizing Amazon SageMaker to train and deploy machine learning models.
- Implemented a state-of-the-art Cephalometric Landmark Detection model on the dataset, achieving improved accuracy for dental measurements and diagnostics.

Toolkits: Python, TensorFlow, Pytorch, OpenCV.

[ProtonAutoML](#), Deep Learning engineer (March 2022 – November 2022)

- Worked with Generative Adversarial Models (GANs) to generate fashion design models for a virtual try-on system.
- Applied the state-of-the-art Style-Based Global Appearance Flow model for Virtual Try-On, successfully extending the model to lower body try-on for the first time, with impressive results.
- Deployed the model using AWS EC2 instances to support real-time virtual try-on in the mobile application.

Toolkits: Python, TensorFlow, Pytorch, OpenCV.

Education:

Ain Shams University (2019 - 2023)

- Bachelor degree in Computer Science – Bioinformatic department.
GPA: 3

Skills

- **Programming Languages:** C#, SQL, Java, C++, HTML, CSS, C, Python, TypeScript, JavaScript, R.
- **Technologies:** Pytorch, Docker, Kubernetes, , Django, ReactJS, Linux, NodeJS, MongoDB, Scrapy, LangChain, Spacy, Qt.
- **Concepts:** Problem Solving, Object Oriented Programming, CI/CD, Algorithms, Data Structures, Design Patterns.

Awards

- Reached top 16 teams in the [FinTech](#) Hackathon out of 80+ teams (2021).
- 3rd Place in Machine learning Competition at Ain Shams university (2021).
- 1st place in NAID Hackathon for disabilities (2020).
- Participated in Global Game Jam (2020)