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Kafr El-Sheikh,

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EDUCATION

STEM High School In Kafr El-Shiekh

October 2017 - Aug 2020

STEM Education Egypt

Bachelor of Artificial Intelligence

Aug 2020 - Jun 2024

Kafr El-Sheikh University

Main Courses: Linear Algebra, Statistics Probability, Math for Computer Science, Data Structures and Algorithms, Object Oriented Design, Computer vision, Databases & SQL, Machine Learning , Deep Learning, Natural Language Processing, Introduction to Reinforcement Learning and multi agent design, Cognitive Psychology.

GPA : 3.7

PROFESSIONAL EXPERIENCE

NLP R&D Engineering Internship

July 2023 - Dec 2023

SpeedLegal

Remotely, California, USA

- Fine-tuning a pre-trained BERT model for an extractive question answering from legal contracts.
- Working with model Interpretability and Explainability (LIME).
- Building Retrieval Augmented Generation Pipelines with LLMs and Embedding Models and properly evaluating the information retrieval system using precision@k, recall@k & mean reciprocal rank.
- Fine-tuning Embedding models on legal contracts

TEACHING EXPERIENCE

Teacher Assistant (TA)

Jan 2023 - March 2023

Kafr El-Sheikh University

- assisting in teaching and preparing reinforcement learning lectures for the "Introduction to Machine Learning" Course for second year students with the main instructor Nora El-Rashidy.
- Teaching basic RL fundamentals including Markov Decision Processes (MDPs), Bellman Equations and optimality & Dynamic programming. (class size: 30 students)

PROJECTS

Crash PPO Agent

Jan 2023

Research Project

- Implementing a policy gradient algorithm which is Proximal Policy Optimization (PPO) from scratch on an agent that plays the retro game Crash Bandicoot: the huge adventure.
- Using Pytorch for creating the actor and critic shared CNN architecture as well as the heads for the actor and the critic.
- Using openAI's gym retro environment.
Project Link on Github: [CrashAgentPPO](#)

AWARDS

2nd Place In Nile University's Undergraduate research forum

October 2020

Nile University

- Training an End-To-End facial recognition system for car security surveillance which checks whether the driver is the car owner or not to prevent burglary.

ACTIVITIES & COMMUNITY SERVICE

Algorithms & Data Structures Tutor in (GDSC)

July 2022 - September 2022

Kafr El-Sheikh University's Google Developer Student Club

- I gave teaching sessions with other tutors about Data Structures and Algorithms.

Artificial Intelligence Study Roadmap

August 2022

Kafr El-Sheikh University

- I published an article where I built an organized, well-planed and resourceful academic undergraduate road-map for studying Artificial Intelligence referencing universities that teach this major.
- Specifically built with the nearest MOOCs (Massive Online Open Courses) that have the same content. I listed all the resources and citations. roadmap : [AI Academic Road-map](#)

SKILLS

Programming

Python, C, OOP, Git, Pytorch, Linux

Communication

Arabic (native), English (Fluent), German (beginner)