Nadine Y. ElSaeed

Machine Learning Researcher

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Objective: Seeking a Master's opportunity in computer vision, and machine learning/deep learning in the healthcare sector.

Research Interests : GANS, Machine Learning, Deep Learning, and Medical Image Analysis.

EDUCATION

Pre Master's in Artificial Intelligence, Faculty of Computer And Information Science, Department of **Computer Science Mansoura University**
2021 - present

Bachelor in Software engineering Faculty of Computer And Information Science, Mansoura University, 2017 - 2021

GPA 3.7/4 *Ranked the First*
Brain Sight — Graduation project *{grade: A*}*

EXPERIENCE

Teaching assistant (Full time) at Faculty of Computer And Information Sciences,
Manaoura university, Department of computer science.
I teach technical labs for: Object oriented programming, IT and Software Engineering.

October 2021 - now.

AI Use-Cases content creator (Part time)
I search for different AI use-cases, and I document as many useful resources as could be related to the business and technical aspects of that use-case.

September 2021 - now

PROJECTS

Brain Sight — *Graduation project*

Sensory substitution vibro-tactile device that helps the eye-impaired to see through their lower-back. Thanks to neuroplasticity and sensory substitution they can adapt to the vibrations mapping the surrounding environment and their brain will interpret these vibrations into a real world image.

SKILLS

Python
Machine Learning
Deep learning
GANs
CNN, RNN
Probability and statistics
Data structures and Algorithms
Problem Solving
Software Engineering
Data analysis
Data visualization

COMPETITIONS & AWARDS

- 12th UGRF Special Edition, Nile University
- Egyptian Engineering Day *"Software applications - First Place"*
- ibTIECare Marathon *"From the 3 winners"*
- TIEC accelerator

CERTIFICATES

IELTS - score 6.5
HCIA AI - Huawei academy
Advanced Data Analysis -Udacity
Machine Learning A-Z nano degree -Udemy
GANs Specialization -Coursera
Tensorflow Developer -Coursera
Linear algebra for Machine Learning
Machine learning A-Z with python

Data Augmentation using GANs

Dinosaurus Island

I built a character level language model to generate new names.

Evaluating GANs

Evaluating the Fréchet Inception Distance.

Deep Convolutional GAN — *DCGAN*

Created another GAN using the MNIST dataset. Where I implemented a Deep Convolutional GAN (DCGAN), a very successful and influential GAN model developed in 2015.

Spectacular Normalized GAN — *SNGAN*

*I have learnt about and implemented **spectral normalization**, a weight normalization technique to stabilize the training of the discriminator, as proposed in Spectral Normalization for Generative Adversarial Networks (Miyato et al. 2018).*

GoBike communication findings

Analyzed ford go bike dataset for the year 2019, and found that the peak hours of renting were 9-5 on working days which shows that clients use the bikes to commute to their work.

Building RNN step-by-step

Improvise a Jazz Solo with an LSTM Network

I applied an LSTM to music generation and generated my own jazz music with deep learning.

Emojify

I used word vector representations to build an Emojifier.

Neural machine translation with attention

using an attention model, one of the most sophisticated sequence-to-sequence models.

Controllable Generation

implemented a GAN controllability method using gradients from a classifier. I resolved some challenges that entangled features pose to controllability.

Multi Class Classifier

I implemented a multi class classifier using Tensorflow, I have been using the Sign MNIST dataset.

Rock Paper Scissors

I implemented a multi class classifier using Tensorflow that identifies what the human's hand indicates .

Horse or Human

I implemented a multi class classifier using Tensorflow that identifies what recognises from a video whether it's a horse or human .

AI A-Z learn how to build AI
Computer vision A-Z
Data Science bootcamp
Quantum Computing introduction
Microsoft Azure Machine Learning scholarship -Udacity

LANGUAGES

Arabic (Native)

English (advanced)

STUDENT ACTIVITY

- Head of event planning board at CSers Club at mansoura university
- Co-founder and HR member at CSers Club at mansoura university

Temperature forecast