Ahmed Hafez

AI Engineer

/Ahmedtronic

linktr.ee/ahmedtronic

31/03/1998 | Giza/Egypt | Single

+201092329340 | Ahmedtronic@gmail.com | Exempt

Summary:

An AI Engineer who aims to create AI-based applications in fields such as Computer Vision, Neuroscience, Psychology, and NLP, with a concrete background in Problem Solving, Competitive Programming, Mathematics, and Data Science. Alongside the ability to integrate AI in multiple Technologies such as Embedded Systems, IoT, Mobile App Development, and more.

Work Experience:

INSTANT (2020 - Present)
AI Engineer

- Working on projects related to connecting AI with multiple frameworks such as flutter and react native.
- Provide courses about advanced topics related to AI such as meta-learning, statistical tests, and genetic algorithms.

Orange Digital Center Egypt (July 2022 - November 2022)
AI Engineer

- Responsible for AI Department and Software planning phase from an AI perspective.
- Was responsible for Training students and working with them on their Graduation Projects related to AI and Deep learning; In addition to integrating AI with multiple fields and technologies.

IT-Sharks (Part Time/ Freelancing) (Dec 2021 - Present)
Machine learning Engineer

- Work on research papers implementation and apply AI in the medical field and computer vision.

AMIT Learning (Part-Time) (Nov 2020 - Nov 2021)
AI Instructor

- Work on projects in Data Science and NLP.
- Record videos about AI and what to do to be updated with its new features, algorithms and applications.

QN Academy (2020 - April 2021)
AI Instructor

- Helped in marketing for the academy as a new courses provider.
- Provided AI courses for beginners.

Blue Vision (Start-up) (Jan 2020 - Dec 2020)
AI Consultant

- Helped in creating their main application (an automated interview tool to hire based on personality type).
- Reformed the system structure.
- Helped in Integrating AI with microcontrollers.

iNetworks (June 2018 - September 2018)
AI Intern

- Learned about advanced topics in AI such as (clear unbalanced data, data augmentation, web scrapping from websites, features engineering, data engineering, databases, and model automation.
- Worked on projects such as (semantic similarity of Arabic texts, computer vision with Augmented reality).

Lamarkaz (August 2017- Feb March 2018)
Blockchain Researcher

- Learned about Mining using C++, mining techniques, and smart contracts.
- Helped in developing their new token and how to market for it.
- Wrote a part of the token documentation and helped in forming its architecture.

Education:

Bachelor of Computer Science (2016 - 2020)

- Misr University for Science and Technology
- CGPA: 3.97 A* **(Top of my patch)**
- Graduation project: Excellent
- Assisted in another 7 Projects such as Home Automation, Intercom using face recognition, and more.

Awards & Competitions:

ACM ECPC (2017 - Present)
Competitive Programming

- **5 Times ACM/ Ecpc participant.**
- MustCPC / AzharCPC Community Coach.
- Solved over 500 problems with different topics such as Dynamic Programming, Graphs, recursion, backtracking, binary search, math, dp, and more.

IEEEXtreme (2022)
Competitive Programming

- Got the 45th Place in Egypt, and the 800th in the Global Rating.
- Was the Trainier of over 10 Teams from Al Azhar, Ain Shams, and Future University.

NASA Space Apps (2020 and 2022)
Solution Challenge

First Participation (2020):

- Got the Second place in Egypt and was responsible for the Software Engineering part of the project.

Second Participation (2022):

- **VIP** Guest, Technical **Mentor**, and Sponsor.

InnovationHub (December 2019 - June 2020)
Entrepreneurship Competition

- Passed over 110 teams, got through two qualification rounds.
- learned all about entrepreneurship skills : planning, funding, pitching, marketing, target segment and more.

Eyouth (2020)
Incubation & Ideas Evaluation Competition

Skills:

Programming Languages:

- C/C++
- Python
- Java
- C#
- PHP
- JavaScript

DataBases:

- Mongo DB
- SQL Database
- Oracle Database
- Firebase

Cloud:

- AWS for ML (Good)

Frameworks:

Anaconda, IBM Watson, Azure, Wit.ai, React Native, NodeJs, Flutter, Arduino, raspberry pi

Architectures & Business Tools:

Architecture Patterns: MVC, MVVM, MVP, Microservices, and more.
Design Patterns: Solid Principles.
DevOps, DataOps, and MLOps Tools: Cron jobs, Trello, Slack, ClickUp, Flask, Streamlit, Fastai, Jenkins, Dockerization, and more.
AI Related Tools: Jupyter Notebook, TF Hub, Hugging face, Tensorflow, PyTorch, Power BI, Tableau, and Meta-Learning.

Social Skills:

- Team Leadership
- Critical Thinking
- Brainstorming
- Team Management
- Project planning
- Data\ Risk Analysis
- Motivational Speaking

Languages:

- Arabic : Fluent
- English : Excellent
- Spanish: Good

Mentors:

- Coach\ Dr. Mohamed Abd El Wahab
- Dr. Mostafa Saad

Courses:

- Machine Learning Nanodegree (Udacity)
- Deep Learning Nanodegree (Udacity)
- Deep Learning Specialization (Coursera)
- Algorithm Analysis (PST)
- CS 50 Algorithm (Edx)
- Python for AI (Udacity)
- Competitive Programming (Coach Academy)
- + Over 50 AI Other Courses on multiple platforms such as Udemy, Udacity, and Coursera.

Projects:

A Flying Drone: Using 3D printed body, Ardupilot and Bluetooth module to give directions from a Remote Control.

An Obstetrical Avoiding Car: Using raspberry pi 4, 5 MB Camera and OpenCV.

Skin/ Lung/ Breast Cancer Prediction: Using a mixture of native and pre-traiend CNN models.

Object Detection (Basic & Customized): Using YOLO with multiple versions in addition to a customized models that can detect only specific objects.

Brain Tumor Segmentation: Classify and segment brain tumor using CNN and U-Net. Transfer learning Automation models: using Auto-keras to create a template for training image data, with the ability to customize it.

Remember Me: A flutter application to help Alzheimer patients not to forget anything or be lost at any location, with an integrated face recognition model.

Awakey: A mobile application that was built to help astronauts have a sustainable life in the space station.

Chest X-Ray Classification: Binary classification model to determine whether that patient is Normal or has Pneumonia.

Sign language Recognition: Classify English characters represented by hands.

Emotion Recognition: Classify images

All Projects & Certificates are available upon request (Highlights here)

Volunteering:

- AzharCPC (2022 - Present)
  Problem Solving Coach
- Microsoft Student Partner (Azhar University) (June 2020-August 2022)
  Head of AI Department
- MustCPC (September 2019- Dec 2021)
  Problem Solving Coach
- GDSCMust (2019 - 2020)
  AI Technical Member
- IEEE Tanta Yniveristy (2021)
  AI Camp Instructor

Talks & Appearances:

- TEDx Talk (Brain vs. Heart) (2022)
- AMB Conference Zagazig University (2022)
- GDSC Delta University (AI in Business) (2022)
- STP Machathon 1 (2019) and 3 (2022)
- Cairo ICT (2020)
- 180 Daraga Camp (2020)
- NilePreneur Pitching Competition (2019)