

AHMAD ABDULHAMEED

Machine Learning Engineer

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Personal Website

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Cairo, Egypt

PROFILE SUMMARY

Machine learning and software engineer, interested in providing simple solutions to real life problems.

EDUCATION

Cairo University 2011 - 2016

· Bachelor of Mechanical Engineering

WORK EXPERIENCE

Machine Learning & Software Engineer | Freelancing

2022 - PRESENT

- · Developing MLOps.
- Creating chatbots.
- · Training computer vision models.
- In-House software solutions that speeds up some processes from days to minutes.
- · Mobile App development.
- IOT software development.

Piping Engineer | ENPPI

2018 - PRESENT

- **Pipeline Roles:** Pipeline design, including CAD drawings, reports, stress analysis, construction consultancy and other tasks.
- Stress Analysis Roles: Running stress analysis calculations and reports, selecting piping supports, drawing special supports and other tasks.
- Piping Design Roles: Designing plants 3D modeling using PDMS & SmartPlant, revising vendor drawings, providing construction supervision and other tasks.
- Software Roles: Developing in-house software solutions for saving time and increasing accuracy.

PROFESSIONAL SKILL

- Problem Solving
- · Communication & Presentation Skills
- Quick Learning
- Passionate Lifelong Learning
- · Leadership & Managerial Skills
- Holistic Process Understanding
- Environments Adaptability
- Initiative-taking

LANGUAGES

- Arabic (Mother Language)
- English (Fluent)
- Russian (Basic)
- · Urdu/Hindi (Basic)

PROJECTS

Department Evaluation & Bonus Estimator Software	2022
• Providing a fair and clear tool for all department individuals to track their accomplishments and effective working hours.	
• This software is very useful for tracking the overall department attitude, ranking the top players in the department, encouraging and motivating the others.	
• It was intended to use some machine learning algorithms using evaluation data history to fine tune the parameters and weights needed for different tasks of the department.	
Main used libraries: Pandas, MongoDB, PyQt5	
Critical Line List Generator	2022
 Python software for estimating criticality level of each line in the piping plant. Reducing the time needed from week or several days just to 30 seconds with neat report generation with different options. Main used libraries: Pandas, PyMuPDF, PyQt5. 	
Waqqad Smart Home	2021
Smart Home Automation, IOT project for controlling home devices using mobile or web using the following tools: Shart Home Automation, IOT project for controlling home devices using mobile or web using the following tools: Shart Home Automation, IOT project for controlling home devices using mobile or web using the following tools: Shart Home Automation, IOT project for controlling home devices using mobile or web using the following tools: Shart Home Automation	
Flutter for mobile app (also for web)Firebase (NoSQL) for backend database	
C/C++ with PlatformIO for Microcontroller programming (device: ESP8266)	
Support Selection Tool	2021
 Developing Support Selection Tool: developed with excel sheets and macros to level up the accuracy and speed up the process by more than 60% 	
AutoCAD Profile Drawer	2019
• Simple excel sheets with macro that speed up the drawing process with more than 4x, with an increased accuracy.	
Reducing modification time from hours to few minutes.	
FECHNICAL SKILLS ———————————————————————————————————	

- Programming Languages: Python, JavaScript, C/C++, Dart, Java & C#
- Databases: MySQL, MongoDB, PostgreSQL
- Machine Learning Libraries: Scikit-Learn, Tensorflow & PyTorch
- NLP & NLU: Hugging Face, RASA, Botpress, Flowise
- Version Control: Github
- Automation: Github Actions, simple scripts
- Containerization: Docker
- MLOps: MLFlow, Dagshub
- Cloud Services: Amazon AWS, Google GCP
- Python API: Flask, FastAPI
- GUI: PyQt
- <u>Mobile Development</u>: Flutter
- Web Development: React, HTML, CSS, JavaScript
- Data Visualization: Matplotlib, Seaborn, Plotly
- Electronics: IOT & Embedded Systems development, PCB Design







