ABDULRAHMAN HISHAM KAMEL

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SUMMARY

Artificial Intelligence Engineer Focusing on AI-powered solutions, from data collection and feature engineering to model building, software architecture, and deployment. Proficient in programming languages (Python, MYSQL, C++), Machine learning frameworks, LLM-based techniques, LLM technologies, and CAD tools for computer engineering. I excel at solving complex problems through creative and analytical thinking, as well as communicating clearly.

EDUCATION

Bachelors of Navigation science and space technology

Beni Suef University **OCT 2020- JULY 2025**

- Specialization in CS, Space navigation & Orbital Mechanics **CGPA**: 3.69/4
- Advanced mathematics · Probability & Statistics · Mechanical design · Electromagnetics · Advanced control · PLM · Electronics · Robotics · Embedded Systems · Structural Analysis ·
- Capstone on "Enhancing Space Mission Planning Using Retrieval-Augmented Generation Models"

Nano degree at AI and data science **April- Nov 2024**

Microsoft

- Machine learning algorithms | Attention-based NLP | MLOps with MLflow | Software development
- Azure AI services | GANs training | Prompt Engineering | Supervised & unsupervised ML | Deep learning

WORK EXPERIENCE

AI Engineer, AQMAAR.space **July 2025 - Present**

Key responsibilities

- Apply advanced AI techniques to optimize space mission planning workflows and analyze different mission architectures.
- Translate customer mission objectives into technical requirements & system specifications for planning & design teams.

Projects

CDF (Concurrent Design Facility): An AI-based solution to bring together propulsion, structures, power, communications, and mission analysis into a shared environment to develop and refine spacecraft designs simultaneously

SIRB: Develop a computer vision solution to detect different laser light patterns | Control panel for our laser payload

DeepOrbit: Develop a 3D Space Debris Simulator | Space Debris Data Dashboard | Development of the main Website

Others: Leading the SIRB mission testing team | Development of SIRB Mobile application MVP

AI Coding Trainer, Invisible Technologies Inc **May 2025 - Present**

- Evaluating and generating high-quality Python, SQL, and C++ code for a multilingual AI education system.
- Assessing AI-generated STEM responses (Mathematics, Statistics, Probability) for scientific accuracy.

SEO Specialist, TELUS International **March - July 2024**

- Improved search result relevance through Page Quality (PQ) evaluations
- Enhanced user satisfaction by Needs Met criteria to align results with diverse intents

ACADEMIC PROJECTS

- **Filmoria** (DEPI Capstone): Lead our team in building a Mobile application with a Recommendation system to analyze user preferences, Movie detection from reels, and movie metadata for personalized film suggestions.
  Chatbot · Face Recongition · distilbert-base-uncased · gpt-2 · Hugging face · API integration
- **Ionospheric Forecasting** (EgSA Training): Developed an LSTM/GRU stack with attention layers to predict VTEC anomalies from GNSS data for space-weather insights.
  Time-series analysis · Deep learning · Large Dataset analysis · TensorFlow
- **Autonomous Mission Design** (University Capstone): Lead our team to build AI-powered software automating the space mission analysis and design process with reference-based feedback
  RAG · Fine-tuning · Prompt Engineering · Langchain · Transformers · PyTorch · Embedding · Chatbot

ACHIEVEMENTS

- **Languages:** Arabic (Native) · English (Fluent) · French (Elementary).
- **Certifications:** Microsoft Certified: Azure AI Fundamentals, AWS Machine Learning Foundations, GeCCo Participant,
- **Activities:** Team Leader, Teamwork, Written and verbal communication, collaborating with cross-functional teams
- **Summer Training**: EgSA, NRIAG, ECHEM, EgyptAir Training Academy, LIRA.
- **Military status**: Exempted.