Ahmed Ibrahim Almalki

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SUMMARY

AI Engineer | Machine Learning Specialist | Solution Architect

Computer Science graduate from Umm Al-Qura University with expertise in AI, Machine Learning, and Computer Vision. Experienced in designing and deploying AI-driven solutions for healthcare, automation, and predictive analytics. Skilled in Python, TensorFlow, PyTorch, NLP, and cloud-based AI deployment. Passionate about developing scalable, real-world AI applications to drive innovation and efficiency.

PROFESSIONAL EXPERIENCE

AI Engineer – GCAD (Freelance) | March 2025 – Present

📍 **Remote**

- **Developed AI-driven automation systems** to enhance business decision-making.
- Designed **predictive analytics and NLP models** to improve user interactions.
- Conducted **R&D on advanced ML architectures**, improving efficiency and accuracy.

Software Engineering Intern – Maternity & Children's Hospital | June 2024 – Aug 2024

📍 **Makkah, Saudi Arabia**

- **Developed AI-based medical diagnostic tools**, improving healthcare outcomes.
- Trained **ResNet deep learning models** for **chest X-ray classification (pneumonia detection)**.
- Integrated **Large Language Models (LLMs)** to automate medical report generation.

EDUCATION

Umm Al-Qura University

Bachelor`s in Computer Science *(Feb 2025)*

📍 *Makkah, Saudi Arabia*

- *Graduation Project:* *Al-Mujamma* – A unified platform connecting major local markets for seamless household online shopping.
  - Achieved an **A+ Grade**.
  - Led **system design, backend development (Laravel, PHP), and RESTful API integration**.
  - Developed core features, including **Address System, Payment System** including **Transaction & Wallet, and Notification System.**

PROFESSIONAL SKILLS AND INTERESTS

Technical Skills:

- **Programming & AI Development:** Python, OpenCV, TensorFlow, PyTorch, SQL, NoSQL
- **Machine Learning & AI:** Supervised & Unsupervised Learning, Image Classification, Large Language Models (LLMs), NLP
- **Data Science & Analytics:** Data Preprocessing, Feature Engineering, Model Evaluation, Statistical Analysis
- **Data Visualization:** Matplotlib, Seaborn, Tableau
- **Big Data & Databases:** MySQL, Pandas, NumPy, Hadoop, Spark
- **Software Engineering & Deployment:** API Integration, Backend Development (Laravel, Flask, PHP), Model Deployment, Linux, Google Colab, Jupyter Notebooks
- **UI/UX & Agile Project Management:** User-Centric Design, Agile Methodologies, Strategic Planning, Version Control (Git)
- **Cloud & Deployment:** TensorFlow, Google Colab, Jupyter Notebooks
- **UI/UX Design**: User-Centric Design

Soft Skills:

- Leadership & Team Collaboration
- Problem-Solving & Analytical Thinking
- Attention to Detail & Precision
- Excellent Communication & Technical Writing
- Time Management & Prioritization
- Critical Thinking & Innovation
- Adaptability & Continuous Learning
- Collaboration in Multidisciplinary Teams
- Advance English Language

PROFFICINAL PROJECT

[Al-Mujamma – Graduation Project] (LINK)
A **unified online shopping** platform connecting local markets for seamless household shopping.
- Designed and developed **backend architecture (Laravel, PHP)** and API integration
- Implemented key systems: **Address System, Payment System including Transactions and Wallet Management, Notification System**
- Achieved **A+ Grade** for innovation in e-commerce solutions

[Medical Chest X-Ray Analysis for Pneumonia Detection] (LINK)
An **AI-powered diagnostic tool** that classifies chest **X-ray images** as **NORMAL** or **PNEUMONIA** and generates automated reports.
- Developed and trained a **ResNet-based deep learning model** for **medical image classification**
- Integrated **Large Language Models (LLMs)** to generate **detailed diagnostic reports**
- Improved **diagnostic accuracy** and decision-making support for healthcare professionals

[Intelligent Customer Support Chatbot (Fine-Tuned LLM)] (LINK)
A **BERT-based chatbot** optimized for handling customer support queries, including order **tracking and product recommendations.**
- Trained on **27,000+ interactions**, leveraging **NLP and deep learning**
- Optimized with **Weights & Biases (Wandb) for tracking & hyperparameter tuning**
- Improved response accuracy and customer engagement using **fine-tuned transformer models**

CERTIFICATES

- **IELTS (English Proficiency)** – IDP| **Mar 2023**
- **PHP and MySQL** – FlexCourses | **Feb 2025**
- **Linux Basics** – FlexCourses **| Feb 2025**
- **Web Development with Laravel** – FlexCourses **| Feb 2025**
- **Version Control Using Git** – FlexCourses **| Feb 2025**
- **Java Programming** – FlexCourses **| Dec 2024**
- **Self-learning Art Course** – FlexCourses **| Dec 2021**

LANGUAGES

- **English:** Full Professional Proficiency
- **Arabic:** Native

Additional Interests & Research

- AI research & deep learning applications
- Scalable AI architectures & cloud-based AI solutions
- Innovations in Generative AI and MLOps