

Muhammad Abdurrahman Ismath

AI Research Engineer

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PROFILE

AI researcher and founder of an AI startup, with strong expertise in Python, Data Analytics, and Machine Learning. Experienced in leading AI-focused projects, managing engineering teams, and leveraging AI to solve business problems. Always eager to deepen technical expertise, collaborate on innovative research, and contribute to impactful AI applications.

PROFESSIONAL EXPERIENCE

AI Automation Engineer

Taswiq (SMMA)

01/2025 – Present

Remote, United

Kingdom

- Built a social media marketing agency that aims to leverage AI automation to drive lead generation and boost customer engagement.
- Researching and learning about marketing automation platforms such as GoHighLevel to streamline CRM, outreach, and campaign workflows.
- Exploring AI-driven ad targeting, analytics, and automation strategies to enhance social media growth for businesses.
- Developing a client acquisition strategy and refining business operations while upskilling in AI marketing tools and automation techniques.

AI Research Engineer | Technical Founder

SoukAI

11/2024 – Present

London, United

Kingdom

- Prototyped and oversaw the development of an AI matchmaking system leveraging vector-based similarity metrics to deliver personalized experiences for sellers and buyers, while actively exploring cutting-edge techniques for future enhancements.
- Collaborated with AI Engineers to build an AI-powered solution that streamlines contract verification and document processing while embedding a state-of-the-art privacy layer for data protection.
- Oversaw the integration of the AI broker system, enabling automated negotiation and deal facilitation between buyers and sellers, aiming to significantly reduce transaction timelines from months to days.
- Led industry research with the co-founder for data-driven decision-making, engaging 100+ oil and gas professionals to refine SoukAI's models and ensure real-world applicability.

Co-founder

ForwardTech Solutions

11/2023 – Present

London, United

Kingdom

- Co-founded a consultancy to assist UK businesses in building their online presence, helping those without websites establish a robust digital footprint.
- Led business development efforts, identifying potential clients and defining technical requirements.
- Developed an outreach strategy to acquire potential clients, though the project remains a work in progress.
- Managed a team developing a web scraping system using Companies House APIs to extract business contact details.
- Oversaw the planning of a Google Maps-based system to identify businesses without websites.
- Coordinated additional services such as web development, branding, and graphic design.

PROJECTS

Analyzing Honey Production

Data Analytics Project

Developed a predictive model using Scikit-learn's linear regression to forecast honey production trends. Leveraged Pandas, NumPy, and Matplotlib for thorough data cleaning and visualization, showcasing the practical application of regression analysis for real-world forecasting.

01/2023 – 02/2023

Collaborative LLM-Based Translation Platform

05/2025 – present

- GitHub-style platform to support collaborative translation and editing of classical and contemporary Arabic texts using LLMs.
- System features include Arabic PDF upload, AI-based text extraction, side-by-side translation view with synchronized scrolling, and Git-style comment/suggestion workflows.
- Currently researching accurate AI translation pipelines, version control logic for long-form text, and multilingual UI/UX for translators and editors.

ML-Based Classification of Fires vs. Explosions in Conflict Zones (NASA FIRMS Data)

08/2025 – 09/2025

- Built an end-to-end ML system distinguishing wildfires from explosions using NASA VIIRS/MODIS satellite time-series.
- Implemented Random Forest, XGBoost, LSTM, CNN, and ensemble models, achieving 80–85% F1-score for explosion detection.
- Engineered temporal-spatial features (FRP patterns, clustering, onset/decay slopes) for robust classification.
- Deployed production pipeline with real-time API, GeoJSON outputs, and interactive Leaflet.js dashboard.
- Open-source project supporting humanitarian orgs in conflict monitoring and rapid emergency response.

EDUCATION

Machine Learning & AI Specialization

11/2024 – Present

- LLMS, NLP, prompt engineering, and AI-powered applications.
- AI model deployment techniques, including Streamlit for AI applications.

Git, GitHub, Linux, and LeetCode Workshop

06/2024 – Present

Imperial College London x StemMuslims

Hands-on training in Git & GitHub for AI/ML projects, Linux fundamentals for development environments, and LeetCode practice to boost algorithmic thinking and coding efficiency.

100 Days of Code: The Complete Python Pro Bootcamp

2022

Udemy

CS50X Introduction to Computer Science

2022

Harvard University

BSc Applied Physics

2019 – 2021
London, United Kingdom

St Mary's University Twickenham

Modules cover mathematical techniques, physics fundamentals, communication and teamwork skills, data analysis, and computational tools for processing and visualizing information.

SKILLS

- **AI & Machine Learning:** Supervised Learning, Ensemble Methods, Deep Learning, Time-Series Modeling, Geospatial ML, Feature Engineering, Model Evaluation, SHAP Explainability, OCR + LLM Pipelines, AI Agents for Document Automation.
- **Data & Analytics:** Data Preprocessing, Time-Series Aggregation, SQL, Pandas, NumPy, Matplotlib, Plotly, Scikit-learn.
- **Development & Deployment:** Python 3, TypeScript, React, Next.js, FastAPI, Flask, PostgreSQL, Real-time Dashboards, Git/GitHub.
- **Soft Skills & Business:** Leadership, Team Management, Client Acquisition, Networking, Entrepreneurial Mindset, Business Operations.