

Ahmed Khaled Ali

Data Scientist | Computer & Control Engineer

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Portfolio: [Phoenixak](#)

❖ Professional Summary:

Results-driven Data Scientist with expertise in data analysis, machine learning, and AI model development. Proven ability to derive insights, drive innovation, and collaborate effectively with cross-functional teams to deliver actionable business solutions.

❖ Education:

Bachelor of Engineering | Obour High Institute for Engineering and Technology

Major: Computer and Control Engineering | Sep 2019 - July 2024

❖ Work experience:

Sole Developer | SongLabAI, Remote | [songlabai.com](#) | Sep 2024 - Present

- Conceived, architected, and developed the entire music generation platform from scratch
- Integrated Hugging Face inference endpoints and designed the full-stack system architecture
- Built secure databases, custom plugins, and user-facing components to connect ML models and UI
- Owned deployment, performance optimization, and cross-functional system integration
- **Tech Stack:** Hugging Face, Python, WordPress, PHP, MySQL, REST APIs

Sole Developer | Connectyed, Remote | [connectyed.com](#) | Apr 2024 - Sep 2024

- Designed and implemented the full professional matchmaking platform independently
- Developed backend (Laravel) and frontend (Vue.js) systems, including real-time scheduling features
- Integrated Zoom and Google Meet APIs, and built analytics-focused data architecture
- Responsible for system security, API management, and deployment
- **Tech Stack:** Vue.js, JavaScript, Laravel, PHP, MySQL, OAuth, RESTful APIs

Data Scientist & Machine Learning Engineer | Upwork, Remote | Mar 2022 - Present

- Developed efficient analysis workflows, reducing data processing time by 15%
- Created standardized frameworks improving data-driven decision-making for 10+ clients
- Delivered ML models for NLP, computer vision, and predictive analytics across industries
- Enhanced project outcomes through facial recognition, market analysis, and time-series forecasting

❖ Technical Skills:

- **Programming Languages:** Python (expert), SQL (competent), PHP, C++
- **Data Science & Machine Learning:**
 - **Frameworks:** TensorFlow, PyTorch, Keras, scikit-learn, Pandas, NumPy, SciPy
 - **Techniques:** Data analysis, Machine learning, Deep learning, NLP, Computer vision, Time-series forecasting, Hypothesis testing, A/B testing
 - **MLOps:** Model deployment, Azure ML, MLFlow, production pipelines, DVC
- **Production & Backend:**
 - **APIs:** FastAPI, Django, Laravel
 - **Cloud & Infrastructure:** AWS, GCP, Azure ML, Docker, Redis, ChromaDB
 - **Web Development:** Vue.js, Streamlit
- **Data Visualization:** Matplotlib, Seaborn, Plotly

❖ Core Competencies:

- Data Analysis & Modeling: Skilled in data-driven decision-making and building predictive models for various industries, including insurance, agriculture, and real estate.
 - Machine Learning & AI: Extensive experience in developing, training, and deploying models for NLP, computer vision, and time-series forecasting.
 - Technical Communication: Adept at presenting complex data insights and model outcomes to both technical and non-technical stakeholders.
 - Project Management: Proficient in managing projects from conception to deployment, ensuring timely delivery and optimized outcomes.
 - Cross-Functional Collaboration: Effective in working with diverse teams to drive innovation and improve processes.
 - Problem Solving & Creative Thinking: Strong ability to tackle complex challenges with innovative solutions.
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❖ Courses & Certifications:

- Data Scientist Certificate | DataCamp | Sep 2024 (Expires Sep 2026) [Link.](#)
 - Associate Data Scientist in Python career track | DataCamp | Apr 2024 [Link.](#)
 - Machine Learning Engineer career track | DataCamp | Aug 2024 [Link.](#)
 - Associate Python Developer career track | DataCamp | Aug 2024 [Link.](#)
 - Data Scientist in Python career track | DataCamp | Aug 2024 [Link.](#)
 - Python Data Fundamentals | DataCamp | Mar 2024 [Link.](#)
 - Software Engineer Certificate | Hackerrank | Aug 2024 [Link.](#)
 - Problem Solving (Intermediate) Certificate | Hackerrank | Aug 2024 [Link.](#)
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❖ Projects:

- **[Enterprise RAG System:](#)**
 - Built production-ready document retrieval platform with FastAPI backend, Streamlit frontend, and ChromaDB vector database
 - Implemented JWT authentication, Redis caching, and Docker deployment for enterprise-grade security and performance
 - Achieved <100ms semantic search response times with hybrid search capabilities and real-time document processing
- **[ML Training & Serving Pipeline:](#)**
 - Developed complete MLOps pipeline from SimpleDLRM model training to production API serving with Azure ML integration
 - Implemented spot instance optimization achieving 60-90% cost savings while maintaining <50ms prediction latency
 - Built scalable training infrastructure handling 1M+ samples with automated model deployment and 1000+ RPS throughput
- **[Analyzing Car Reviews with LLMs:](#)**
 - Designed chatbot application using Large Language Models for auto dealership customer service
 - Implemented sentiment analysis, Q&A, and text summarization features
 - Reduced customer support response time by 40%
- **[Modeling Car Insurance Claim Outcomes:](#)**
 - Built predictive model optimizing pricing strategies for insurance company
 - Enhanced risk assessment accuracy, increasing profitability by 15%
- **[Recipe Site Traffic Analysis & Prediction:](#)**
 - Developed predictive models achieving 80.87% precision in identifying high-traffic recipes
 - Performed comprehensive data preprocessing and exploratory analysis
 - Delivered actionable insights improving site traffic by 20%

For more projects, visit my [GitHub Portfolio](#).

❖ Languages:

- Arabic: Native
- English: Advanced