

MOHAMAD NUMAN ALALI

Certified in Generative AI & AI Ethics - Applied AI & ML - RAG & Neural Networks

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PROFESSIONAL SUMMARY

Computer Science student with a strong focus on applied artificial intelligence and machine learning. Experienced in developing retrieval-augmented generation (RAG) pipelines, neural networks, and data-driven AI applications, including educational AI tools. Particularly interested in scientific computing, research-oriented engineering, and the responsible application of AI in complex technical environments.

EDUCATION

United Arab Emirates University <i>Bachelor of Science in Computer Science, GPA 3.94</i>	Al Ain, UAE Fall 2023 Expected Fall 2027
• Relevant Coursework: Machine Learning, Algorithms, Data Structures, Software Engineering, Database Systems, Human Computer Interaction, Probability and Statistics	

EXPERIENCE

AI Instructor <i>Sheikh Mohammed bin Khalid Al Nahyan Center</i>	Jul 2025 – Present Al Ain, UAE
• Taught students ages 12–15 foundational AI concepts and ethics	
• Designed simplified and interactive educational material	
• Strengthened student engagement through hands-on demonstrations	
Python Community Co Lead, Cybersecurity Club <i>Abu Dhabi University - Al Ain Campus</i>	Apr 2025 – Present Al Ain, UAE
• Led workshops on Python, machine learning, and AI fundamentals	
• Mentored students on debugging, project planning, and technical development	
• Created hands-on educational content and learning sequences	

PROJECTS

Pneumonia Detection from Chest X-Ray Images PyTorch, CNNs, Gradio	Jan 2026
• Developed an end-to-end deep learning pipeline for pneumonia detection from pediatric chest X-ray images	
• Designed and trained a custom CNN with data augmentation, batch normalization, dropout, and learning rate scheduling	
• Evaluated model performance using accuracy, precision, recall, F1-score, and confusion matrix on a held-out test set	
• Deployed the trained model via a Gradio web interface for real-time image inference	
Resume Helper (Jake Ryan Template) Custom GPT, LaTeX, ATS Optimization	Jan 2026
• Developed a custom GPT system for generating ATS-friendly technical resumes using the Jake Ryan LaTeX template	
• Implemented structured data collection and resume parsing to extract key experience and identify missing details	
• Automated bullet rewriting using an impact-driven framework with integrated role-specific keywords	
• Produced Overleaf-ready LaTeX source files and machine-readable PDFs while preserving template integrity	
Neural Network From Scratch Python, NumPy	Jan 2026
• Built a handwritten digit recognition neural network from scratch using Python and NumPy	
• Implemented forward propagation, backpropagation, and gradient descent with matrix operations	
• Applied ReLU and Softmax activations with one-hot encoded labels	
• Trained and evaluated on the MNIST dataset, achieving 84.7% validation accuracy	
Student Assistant Chatbot using RAG LangChain, ChromaDB, OpenAI, Gradio	Nov 2025
• Implemented full RAG pipeline using regex chunking, ChromaDB vector store, and OpenAI embeddings	
• Built Gradio interface for natural language querying	
• Designed controlled prompting to significantly reduce hallucinations	
Transportation Access Classifier MobileNetV2, Transfer Learning, TensorFlow	Apr 2025
• Built multi-class image classifier for automated vehicle access control using transfer learning with MobileNetV2 (pre-trained on ImageNet), achieving high accuracy across car, scooter, and denied access categories	
• Implemented data augmentation pipeline and custom dense layers on frozen base model; trained and evaluated using categorical crossentropy with validation monitoring and ModelCheckpoint callbacks	
• Published reproducible Jupyter notebook workflow with training visualizations, demonstrating model performance progression and overfitting detection strategies	

CERTIFICATIONS

Critical Thinking in the AI Era	Jan 2026
<i>HP LIFE</i>	
Ethical Considerations for Generative AI	Jan 2026
<i>IBM</i>	
Data Science & Analytics	Jan 2026
<i>HP LIFE</i>	
AWS Educate: Introduction to Generative AI	Dec 2025
<i>Amazon Web Services (AWS)</i>	
1 Million Prompters Prompt Engineering and AI Literacy	Jul 2025
<i>Dubai Future Foundation</i>	
UAE Artificial Intelligence Academy	May 2025
<i>ZAKA & Microsoft</i>	
Career Essentials in Generative AI	Apr 2025
<i>Microsoft & LinkedIn</i>	

AI OUTREACH AND INITIATIVES

Author, 22 Fun Prompts You Can Try	Dec 2025 – Jan 2026
<i>Self-published AI prompt guide</i>	
• Wrote and published a 31-page beginner-friendly AI guide featuring 22 structured prompts for productivity, creativity, and learning	
Creator, AI in the Middle East Newsletter	Sep 2025 – Present
<i>Self-initiated regional AI newsletter</i>	
• Authored regional AI insights on research trends, policy, and investment	
Founder, 100 Days of Python Educational Sequence	Jul 2025 – Present
<i>Structured Python learning initiative</i>	
• Developed curriculum for beginner to intermediate Python learners	
Instructor, Beginner Friendly AI Workshops for Children	Apr 2025 – Present
<i>Introductory AI education for children</i>	
• Delivered AI and ML concepts to children ages 8–15 through simple analogies and activities	

AWARDS AND HONORS

Dean's List Award - Spring 2025	Nov 2025
<i>United Arab Emirates University</i>	
Dean's List Award - Fall 2024	Apr 2025
<i>United Arab Emirates University</i>	
Honors Award for Academic Excellence	Apr 2025
<i>United Arab Emirates University</i>	
Dean's List Award - Spring 2024	Nov 2024
<i>United Arab Emirates University</i>	

SKILLS

Programming: Python, Java, C++, SQL, JavaScript
ML/AI: RAG, Deep Learning, CNNs, Transfer Learning, Prompt Engineering
Libraries: LangChain, ChromaDB, OpenAI API, PyTorch, TensorFlow, Scikit-learn
Tools: Git, GitHub, VS Code, Jupyter, Gradio
Other: Data Visualization, API Development, Leadership, Team Collaboration, Problem Solving, Public Speaking, Project Planning, Curriculum Design, Technical Writing, Teaching and Mentoring

LANGUAGES

Arabic Native | English Fluent