

Habiba Almetnawy

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EDUCATION

United Arab Emirates University | Al Ain, UAE

B.S. in Computer Science | Full-Ride Scholarship

Aug 2022 - Current

PROFESSIONAL EXPERIENCE

Sure+ Research Assistant | United Arab Emirates University | Al Ain, UAE

Sep 2024 - May 2025

- Engineered an adaptive AI tutoring system using LangChain and Retrieval-Augmented Generation (RAG) to dynamically retrieve and integrate relevant educational content, enhancing contextual accuracy and **improving concept mastery speed by 20%**.
- Led a 3-person team in developing test protocols with AI-simulated student profiles and engineered solutions that **reduced system hallucinations by 81%**.

AI Risk Landscape Market Research Extern | National Research Groups | Remote

Jul 2024 - Aug 2024

- Led **in-depth secondary research** to analyze, classify, and assess **AI risks** within a structured risk framework.
- Developed a **comprehensive case study** showcasing real-world business vulnerabilities and strategic risk mitigation approaches.

Undergraduate Research Assistant | United Arab Emirates University | Al Ain, UAE

June 2024 - Aug 2024

- Conducted a comparative study on the effectiveness of traditional educational tools, digital documents, AI text, and AI speech technologies, significantly **improving learning engagement and outcomes for 32 students**.
- Transformed raw assessment data into actionable insights through advanced statistical modeling, revealing key intervention points that **boosted student performance metrics by 15%**

AI Intern| Samsung Innovation Campus | Remote

Feb 2024 - Apr 2024

- Completed an intensive 2-month AI training and development program focused on deep learning and computer vision.
- Built and deployed a CNN using MobileNetV2 with **99.61% accuracy across 38 plant disease classes**, integrated a chatbot that **boosted user interaction efficiency by 60%**, and was selected among the **Top 5 Best Projects** by Samsung engineers.

PUBLICATIONS

Exploring the Pedagogical Potential of Large Language Models: A Multimodal Study on Student Learning Outcomes

Published in the 6th International Workshop on Artificial Intelligence and Education (WAIE), 2024 - DOI: 10.1109/WAIE63876.2024.00024

PROJECTS

Guardians of Sustainability | Sharjah Sustainability Award

JavaScript | HTML | CSS | Python | Gemini API

- Developed an AI-powered urban infrastructure monitoring platform with Gemini API, **reducing issue detection time by 40% and improving reporting accuracy by 30%** through AI-based image recognition and Google Maps integration.

HONORS AND AWARDS

1st Place - Data Visualization Competition

Feb 2025

- Won **first place** in a university-wide competition for developing an interactive **Power BI** data visualization dashboard, with insights so impactful they were featured in a newspaper article, competing against **35+ teams**.

1st Place - Best Research Project | ICEQ Conference

Apr 2025

- Awarded **first place** at the 8th International Conference on Education Quality (ICEQ) for research on AI-driven personalized learning systems, selected **among projects from 150+ international participants**.

SKILLS

Programming Languages: Python (Advanced) · Java (Advanced) · SQL (Intermediate) · HTML/CSS (Intermediate) · C (Beginner)

Technologies: Pandas · NumPy · Scikit-learn · TensorFlow · PyTorch · Power BI · Streamlit · Git · Figma · LangChain · OpenAI API

Skills: Feature Engineering · Business Analytics · Leadership · Clustering · Neural Networks · Project Management · Revenue Evaluation