Yazan Yahya Alshuaibi

Computer Science

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PROFILE

Computer Scientist with expertise in AI, NLP, and software development, passionate about creating innovative and scalable solutions. Motivated by a deep interest in technology and continuous improvement, I strive to address complex challenges and drive impactful advancements.

EDUCATION

B.Sc Computer Science 09/2020 – 06/2025
King Abdulaziz University
5.0/5.0 GPA

PROFESSIONAL EXPERIENCE

Artificial Intelligence Intern 06/2024 – 08/2024
King Abdullah University of Science and Technology (KAUST)
- Selected as one of 100 students for the KAUST Academy AI program at King Abdullah University of Science and Technology.
- Deep Learning: Autoencoders, VAEs, GANs; unsupervised & generative modeling.
- Reinforcement Learning: Optimal policies in dynamic environments
- Graph Neural Networks: Concepts & implementation in recommendation systems
- NLP: Text/sentiment analysis, language modeling

Software Engineer intern 06/2021 – 08/2021
Smart Methods
- Designed and implemented web interfaces to control robotic functions using HTML and CSS, enhancing usability and interaction.
- Developed an interactive chatbot with speech-to-text and text-to-speech capabilities using IBM Watson, providing a responsive and accessible user experience.
- Built a MySQL database to efficiently store and manage information for web applications, supporting seamless data integration and retrieval.

PROJECTS

Generating Multiple Choice Questions of Saudi Schoolbooks
Developed an NLP-based system to automatically generate multiple-choice questions from Arabic texts in Saudi schoolbooks, utilizing Large Language Models, Retrieval-Augmented Generation (RAG), few-shot learning, and advanced prompt engineering techniques.

Hajis
ALLAM Hackathon Project
Designed and implemented *Hajis*, an AI-driven project using the ALLAM model to generate, analyze, and explain Arabic poetry. This system leverages NLP to create original poems, provide insightful analysis, and enhance understanding of poetic structures, catering to enthusiasts and scholars of Arabic poetry.

Federated Learning in Acute Lymphoblastic Leukemia
Developed a Federated Learning-based solution for Acute Lymphoblastic Leukemia (ALL) diagnosis and prediction, enabling decentralized model training across multiple healthcare institutions. This approach preserves patient privacy by keeping sensitive data local while improving the accuracy and generalization

COURSES

Mathematics for Machine Learning and Data Science
DeepLearning.AI

Databases and SQL for Data Science with Python
IBM

COMPETITIONS AND AWARDS

1st Place Winner for AI in Product Management Hackathon
Developed an AI-driven solution featuring timeline data visualization, an intuitive user interface, and automated email dispatch to enhance product management efficiency and streamline communication processes.

Participated in Jam 6.0 and Jam 7.0
Ranked in the top 12.5% out of 200 participants.

Barmjoon Competitions
Participated in Barmjoon 1 and secured 6th place in Barmjoon 2.

Sumo Robot Competition at Robocon
Achieved a Top 5 finish in the first-ever competition.

SKILLS

Technical
Python, Java, Pandas, Sklearn, Pytorch, HuggingFace, Flask, HTML, NLTK, Spacy, MySQL.

Soft skills
Teamwork, communication, problem-solving, adaptability, teaching, critical thinking, attention to detail, time management, leadership