Abdulhadi Ibrahim Zubailah
Data Scientist

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Education

King Abdullah University of Science and Technology (KAUST),   06/2024 – 08/2024 | Thuwal, Saudi Arabia
AI Summer Program
- Selected as one of 200 participants from over 10,000 applicants
- Studied and applied Advanced topics such as Reinforcement Learning, Generative AI, NLP
- Contributed to a project that developed autonomous UAV swarms using Reinforcement Learning to combat wildfires

King Fahd University of Petroleum and Minerals (KFUPM),   2019 – 2024 | Dhahran, Saudi Arabia
Bachelor of Science / Computer Science
- GPA: 3.944 / 4.000
- Awarded 1st Honor Distinction for outstanding performance 5 times
- Relevant Coursework:
  - Mathematics: Calculus / Linear Algebra / Statistics / Discrete Math
  - Major: Object-Oriented Programming / Data Structures / Algorithms / Database / AI / ML / Data Science / Big Data / Computer Graphics / Game Programming / OS

Professional Experience

Teaching & Learning Technology Associate, *KFUPM*   04/2025 – present | Dhahran

Associate IT System Analyst, *Aramco UD&CSD*   02/2025 – 04/2025 | Dhahran
- Designed Python-based architecture using LLM APIs for natural language function calling in oil/gas operations with multiple tools to enhance operational capabilities
- Developed and deployed an AI-powered chatbot for a platform landing page, building FastAPI services and backend workflows with OpenShift deployment
- Engineered a camera-based app featuring a spherical cursor with face-tracking, NLP voice activation, and dynamic visualization for contextual platform interaction
- Collaborated under Scrum methodology with rotating Scrum Masters, ensuring iterative AI solution development while aligning with enterprise standards through stakeholder updates and Azure DevOps tracking

Teaching Assistant, *KAUST Academy (Seasonal)*   11/2024 – present
- Taught lab sessions for the advanced phase of the AI program, providing hands-on guidance with complex concepts, addressing student questions, and offering individualized support for 100+ students
- Assisted professors with classroom setup and logistics, contributed to exam preparation, performed comprehensive grading of exams, and served as a point of contact for student inquiries
- Earned 9+/10 ratings. Praised by students for simplifying complex topics

Data Scientist, *Mozn*   12/2024 – 01/2025 | Riyadh
- Built comprehensive knowledge base using Neo4j with multi-attribute nodes, mapping entity relationships and pathways derived from client data, implementing Hugging Face embedding models for intelligent recommendations
- Engineered sophisticated ETL processes to extract critical information from unstructured PDFs, populating knowledge graph to power an unsupervised learning-based recommendation engine with embedding similarity ranking

Instructor, *Shaguf*   08/2022 – 09/2024 | Riyadh (Remote)
- Created courses in Python & C and Finite Mathematics, attracting over 150 students
- Tracked student progress and provided targeted support for struggling students; courses received an average rating of 5 stars, highlighting exceptional student satisfaction

Teaching Assistant, *KFUPM*   02/2022 – 05/2024 | Dhahran
- Worked as Lab Instructor. Taught 20+ students, and developed lab tests and projects to assess their progress
- Graded 200+ programming assignments and tests, providing constructive feedback to improve student understanding
- Tutored struggling students individually and in small groups in Digital Logic Design & Python subjects

- Assisted with research projects in Bioinformatics and AI under faculty supervision

Engineering Intern, *Baker Hughes DTC*   06/2023 – 08/2023 │ Dhahran
- Worked on big projects related to Natural Language Processing, Data Science, and creating a Management System
- Developed 6 interactive Streamlit dashboards for showcasing in-house AI models and data visualization

Volunteering Experience

KFUPM Google Club, *Technical Member*   09/2023 – 05/2024
- Conducted and planned workshops focusing on modern tools like Streamlit for Data Science and AI
- Served as a mentor and organizer for various Data Science and AI bootcamps

KFUPM IE Club (Intellectual & Electronic Club)   09/2019 – 05/2024
Roles:
Head of Modern Games (Sep 2021 – Jun 2023)
Event Supervisor (Oct 2019 – Sep 2021)
Member (Sep 2019 – Oct 2019, Jun 2023 – May 2024)

- Led a team of 20+ members to organize 50+ large-scale gaming events, including tournaments, workshops, and game development sessions, attracting thousands of cumulative participants.
- Directed financial decisions for events, including vendor contracts, prize pools, and resource procurement, ensuring cost-effective execution.
- Revitalized club engagement by introducing innovative event formats (e.g., Boardgame Marathon, workshops like Game Design Essentials).
- Awarded *"Years of Service Honor"* for 5 years of dedicated contributions.

KFUPM Computer Club Academic Division   10/2022 – 07/2023
- Conducted 5+ help sessions on computer science subjects, aiding students in exam preparation
- Developed a Course Evaluation page using Notion to gather insights on optimal preparation strategies for courses

Skills and Languages

- **Programming Languages:** Python, Java, JavaScript, C, C#, MATLAB, R, SQL
- **Tools & Platforms:** Docker, Tableau, MySQL, Neo4j
- **Frameworks (Python):** TensorFlow, PyTorch, Transformers, SciKit-Learn, SpaCy, OpenCV, FastAPI, Streamlit
- **Techniques & Specializations:** Reinforcement Learning, Generative AI, NLP, Computer Vision, Unsupervised Learning
- **Data Science & Visualization Tools:** NumPy, Pandas, Seaborn, Plotly
- **Data Engineering:** ETL Pipelines, Knowledge Graphs, Data Visualization
- **Collaboration & Leadership:** Agile/Scrum, Teamwork, Leadership, Mentorship, Curriculum Development
- **Problem-Solving & Communication:** Critical Thinking, Creativity, Interpersonal Communication, Adaptability
- **Languages:** Arabic (Native), English (IELTS: 8.0)

Certificates

- Natural Language Processing Specialization - DeepLearning.AI
- Business Analytics - Udacity in cooperation with Misk Academy
- Game Design Specialization - California Institute of the Arts
- Google Advanced Data Analytics - Google
- INE Certified Junior Data Science - INE