Ibraheem Alsaghier

ibraheemsag@gmail.com | +966560010643 | Thuwal, Saudi Arabia

EDUCATION

KAUST | MS Computer Science   Thuwal, Saudi Arabia | Aug 2023 - May 2025

UNC, CHAPEL HILL | BS Computer Science   Chapel Hill, NC | Sept 2019 - May 2023

RELEVANT COURSEWORK

AI & ML   Deep Learning for Visual Computing, Deep Generative Modeling
Computer Systems   Computing Systems and Concurrency, Advanced Distributed & Networked Systems

RESEARCH EXPERIENCE

KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY | Research Assistant   Thuwal, Saudi Arabia | May 2024 – Dec 2024

- Developed benchmarks for evaluating agentic AI's fault-diagnosis capabilities, leveraging tracing, logging, and metric collection on microservice applications.
- Built orchestration tools in Python/Go for controlled fault injection in microservices, streamlining debugging processes.
- Engineered an automated AI agent achieving accurate root cause analysis in controlled experiments.

LEADERSHIP EXPERIENCE

KGSP ALUMNI COUNCIL | Outreach Chair   Nov 2023 – Nov 2024

- Coordinated and hosted alumni events, increasing participation by X
- Executed strategic outreach campaigns boosting alumni engagement.

SKILLS

Programming Languages   Python, Java, C, Go
Python Modules   Pytorch, Pandas, Numpy, Scipy

PERSONAL PROJECTS

AFFECTIVE IMAGE MODIFICATION | AI-powered Emotion-Based Image Editing

- Developed a pipeline integrating a Large Language Model (LLM) and a diffusion model to modify images based on user-specified emotions (e.g., joy, sadness, fear, surprise, calm).
- Designed the system to analyze and alter scene elements, enhancing the emotional impact of the image.

MOVIE RECOMMENDATION SYSTEM WITH DEEPFM (IN PROGRESS) | Deep Learning for Personalized Recommendations

- Built an end-to-end recommendation system utilizing the Deep Factorization Machine (DeepFM) architecture for personalized movie suggestions.
- Integrated user and movie metadata from MovieLens and IMDB to improve collaborative and content-based filtering.
- Currently optimizing scalability and generalization to larger datasets for improved recommendation accuracy.

PERSONAL PORTFOLIO (IN PROGRESS) | React-based Interactive Developer Portfolio

- Designed and built a responsive personal portfolio website using React to showcase projects and skills.
- Implementing interactive UI elements for project demos and blog integration.