Hassan Barmandah

+966580586649 | hassancontact45@gmail.com | linkedin.com/in/hsnhb |
github.com/HasanBGIt | hsnhb.social

SUMMARY

Software Engineer focused on Artificial Intelligence, with experience in full-stack development, machine learning, and computer vision. Currently exploring LLMs, NLP, and Generative AI. Passionate about leveraging new technologies to solve real-world problems and eager to collaborate on impactful, innovative projects with diverse teams.

EDUCATION

Umm Al-Qura University   Makkah, Saudi Arabia
B.S. in Software Engineering, GPA: 3.91/4.00   *Expected Graduation: June 2027*

EXPERIENCE

Data Analyst Intern   Jul 2025 – Aug 2025
Uptrail   *London Area, UK (Remote)*
- Participated in structured training, working on real-world data analysis projects, and received a (Recommendation Letter)
- Utilized Python, SQL, Power BI, and Tableau to extract, visualize, and present business insights
- Collaborated with a team on weekly projects, data reviews, and client presentations
- Received mentorship and feedback from industry experts on data analysis best practices and governance

AI & Robotics Engineer Intern   Jun 2025 – Aug 2025
Smart Methods   *Makkah, Saudi Arabia (On-site)*
- Designed and prototyped robotic systems with 3D modeling and mechanical joint optimization
- Programmed and integrated sensors, motors, and controllers using Arduino, ESP32, and embedded systems
- Developed AI and computer vision solutions for robotics, including image classification and object detection
- Built web-based controls and user interfaces to enhance robot interaction and user experience

PROJECTS

ModelCraft   Jul 2025 – Present
Open-Source Repository
Built an open-source repository covering machine learning and deep learning architectures, from classical to modern models

PUBLICATIONS

Saudi-Dialect-ALLaM: LoRA Fine-Tuning for Dialectal Arabic Generation   Aug 2025
arXiv
Fine-tuned ALLaM-7B-Instruct for Saudi dialect generation using a curated instruction dataset (Hijazi and Najdi)

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, HTML, CSS, JavaScript, React, Spring Boot

Data Science & ML: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch, OpenCV, Jupyter Notebook

Interpersonal Skills: Leadership, Teamwork, Communication, Problem Solving

CERTIFICATIONS

Deep Learning Specialization   Jul 2025
DeepLearning.AI

AWS AI Practitioner   May 2025 – May 2028
Amazon Web Services (AWS)

Advanced Artificial Intelligence   Feb 2025
KAUST Academy

McKinsey Forward Program   Dec 2024
McKinsey & Company

Python 3 Programming Specialization   Sep 2024
University of Michigan