

# FAISAL M. ALKULAIB

## Junior Data Scientist

📍Riyadh, Saudi Arabia | 📞+966 53 648 3315 | ✉️alkulaib03@gmail.com | 🌐LinkedIn | 📁GitHub

### EDUCATION

#### King Saud University

Aug 2020 – Jun 2025

B.S. in Computer Science | GPA: 4.85 / 5.00

Riyadh, KSA

### EXPERIENCE

#### Research Scholar Intern

Jun 2024 – Aug 2024

Bader lab, University of Toronto

Toronto, CA

- Enhanced gene normalization accuracy in **Biofactoid** using **JavaScript** by integrating NLP-derived contextual hints, significantly reducing orthologue errors and improving the reliability of curated biomedical data.
- Extracted and processed biological entity data from over 1,000+ scientific articles using **PubTator 3.0** and integrated findings into Biofactoid's custom search engine system (**Grounding Search**) for accurate gene identification.
- Managed project development and deployment on GitHub, refining version control and collaborative development skills

### PROJECTS

#### Palmyra "Green Riyadh From Space"

- Developed an **AI-driven solution** leveraging satellite imagery, advanced computer vision (YOLOv11), and Google Earth Engine (GEE) for NDVI calculation to assess the Green Riyadh initiative.
- Digitally transformed** an error-prone tree counting process into a continuously updated, automated analysis system, achieving **94.6%** precision, **95.4%** mAP50, and **90.2%** recall.
- Presented findings through a user-friendly Power BI dashboard, enabling data-driven decisions aligned with Saudi Vision 2030 and supporting Riyadh's rapid, sustainable growth.

#### Saudi Job Posting Analysis

- Analyzed and simplified the employment landscape in Saudi Arabia for fresh graduates. Provided actionable insights and alleviated the anxiety of navigating the job market. **Tools:** (Pandas, Plotly, Streamlit)

### ACHIEVEMENTS

#### Empowerment for University Entrepreneurship, sponsored by Monshaat & KSU

Oct 2024

- First-place gold medal out of more than 40+ projects in the competition, recognized for innovative solutions and entrepreneurial impact, awarded a prize of 30,000 riyals.

#### Bioinformatics Summer Camp, sponsored by KAUST Academy

Jun 2024 – Aug 2024

- Qualified in the top 2% from over 1,200 applicants to conduct research at top universities abroad with a fully-funded internship.

### CERTIFICATES

#### Data Science & Machine Learning Bootcamp, Tuwaiq Academy

Oct 2024 – Nov 2024

#### KAUST Bioinformatics Program, KAUST Academy

Oct 2023 – Aug 2024

### SKILLS

**Technical:** Data Analysis & Visualization, Machine Learning, Research, Data Storytelling

**Soft:** Effective Communication, Problem Solving, Strategic Thinking

**Programming:** Python, R, JS, Java, C