

# Reem Alsharabi

[Reem.Alsharabi@outlook.com](mailto:Reem.Alsharabi@outlook.com) | [linkedin.com/reem-alsharabi](https://www.linkedin.com/in/reem-alsharabi) | [ReemAlsharabi.github.io](https://github.com/ReemAlsharabi)

## EDUCATION

### Effat University

BSc in Computer Science

Jeddah, Saudi Arabia

Aug 2020 – Dec 2023 (expected)

- GPA: 3.94 out of 4
- Dean's List for all semesters.
- Albanawi List of academic excellence.

## EXPERIENCE

### KAUST AI Intern

King Abdullah University of Science and Technology (KAUST)

July 2023 – August 2023

Thuwal, Saudi Arabia

- Explored LLMs' classification abilities, exposing limitations in detecting sociocultural bias in LLM-generated text.
- Trained a specialized bias classifier, achieving 97% accuracy on unseen data, outperforming GPT-3.5 which achieved 53%.
- Collaborated with Dr. Guohao Li at the Image and Video Understanding Lab (IVUL).

### Robotics and AI Intern

Smart Methods

June 2023 – August 2023

Jeddah, Saudi Arabia

- Integrated Embedded TensorFlow into a robotic vision system, enabling real-time object detection and recognition capabilities achieving an average precision of 90%.
- Integrated sensors, including cameras, with the robotic arm, preprocessing sensor data for input into the DL models.

### Research Assistant

Effat University - ECE department

October 2022 – October 2023

Jeddah, Saudi Arabia

- Developed a predictive ML model for LEDs lifetime prediction, addressing out-of-distribution predictions under use conditions with a reduction in relative error from 99% to 2%.

## AWARDS

### Undergraduate Research Forum

May 2023

- Awarded 2nd place among 30 participants in the undergraduate research forum at Effat University (3-minute presentation).

## SELECTED PROJECTS

### LLM's Bias Detector | Pytorch, Flask

- Collected a diverse dataset by leveraging OpenAI's GPT-3.5 API.
- Fine-tuned GPT-2 and achieved a significantly higher accuracy (97%) compared to GPT-3.5 (53%).
- Created a web-based application using Flask to provide a user-friendly interface.

### GTSRB CNN | Pytorch

- An open-source contribution to enhance the accuracy of CNNs for predicting road signs using the GTSRB dataset, elevating the validation accuracy from 70% to 92%.

### SignLSTM | Python, Keras, Mediapipe

- Real-time sign language gesture detection system using video/webcam.

### Facial Recognition | Pytorch

- Facial recognition model trained on a diverse dataset with 96% validation accuracy.

## TECHNICAL SKILLS

Java, C/C++, Python, PyTorch, MATLAB, SQL, ASP.NET, Git

## BLOG

- The Random Walk Simulation 