

# Ayesha Khaldoon

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## Education

### Lahore University of Management Sciences (LUMS)

BS Computer Science

Lahore, Pakistan

Aug 2022 – Present

Relevant Coursework: Deep Learning, Data Structures, Algorithms, Database Systems, Software Engineering, Machine Learning

### Beaconhouse School System

A-Levels (4A\*)

Lahore, Pakistan

O-Levels (8A\* 1A), 100% Merit Scholarship

Graduated 2020

## Projects

### Campus Cart – Dorm Delivery & Bidding System | MERN, Socket.IO

- Built a real-time delivery bidding system that reduced average delivery assignment time by 40% using live updates with Socket.IO.
- Implemented secure JWT-based authentication and admin dashboards, improving complaint resolution efficiency across users.

### Visa Booking App Automation System | Python, Selenium, Automation

- Developed an automated system using Selenium to streamline the visa appointment booking process, reducing manual effort by 80%.
- Implemented scheduling scripts and error-handling mechanisms that improved booking success rates under high-demand conditions.

### Classification of Urdu News Articles | NLP, scikit-learn

- Developed and optimized classification models that achieved an F1-score improvement of 15% and 99% accuracy over baseline, enabling accurate categorization of underrepresented Urdu text data.
- Increased accessibility in local language NLP, filling gaps in regional news article classification.

### Text Classification & Text Generation | Transformers, CLIP

- Implemented a lightweight CLIP variant achieving efficient image-text alignment on Flickr8k with ~25% faster training.
- Trained a Transformer-based text generator to produce contextually relevant character dialogues, improving coherence scores in evaluation tests.

## Skills & Interests

**Programming Languages:** C, C++, Python, JavaScript, TypeScript, Haskell, HTML5, CSS

**Web Development:** React, Node.js, Next.js, Express.js, Django, Flask, Tailwind CSS, Bootstrap

**Machine Learning & AI:** PyTorch, TensorFlow, LangChain

**Databases:** MongoDB, MySQL

**Other Tools:** MATLAB, Docker, Git

**Interests:** Building intelligent web applications, integrating chatbots & recommendation systems, AI research, collaborative Agile development, scalable system design

## Teaching Experience

### Teaching Assistant – Writing and Communication | Lahore University of Management Sciences (LUMS)

Instructor: Ms. Faiza Dar

Fall 2023 - Spring 2024