

# Hisan Naeem

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## EDUCATION

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### Lahore University of Management Sciences

Lahore, Pakistan

*Bachelor of Science in Computer Science*

*Aug. 2019 – May 2023*

CGPA **3.94/4.00** | Major CGPA **3.97/4.00**

**Relevant Courses:** Machine Learning, Deep Learning, Computer Vision, NLP, Advanced Programming, Software Engineering, Data Structures, Algorithms, Distributed Systems

## EXPERIENCE

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### Machine Learning & Software Engineer, Tibbling AI

June 2023 - Present

#### Segmentation Models (Instance & Semantic)

- Built their segmentation pipeline with active learning setup for quick finetuning of the models.
- The task was to segment medical data, such as neurons in entire brain sections, and identifying brain regions in MRI scans.
- Finetuned models like Detectron2, SAM, YoloV8 and Google ViT.
- Active learning involved tools like Napari and Label Studio for data annotation

#### Chat Interface

- Built a chatbot module to allow the users to communicate with their experimental data (in csv format)
- Used Langchain and the GPT API to build the pipeline
- Also explored other alternatives to GPT, like GPT4All, Mistral, Llama2, DistillBert, and Tapex
- The pipeline allowed users to dynamically run queries and execute arbitrary code on dataframes

#### Tibbling Webapp

- Built their webapp from scratch using NextJS frontend and Node JS backend.
- Used Tailwind CSS for UI styling, and Plotly JS to add interactive visualizations. Used Fabric JS to build the annotation interface

### Machine Learning Intern, Wizlabs

Jan 2023 - March 2023

- Worked on a text-to-image Stable Diffusion model for content generation, tailored to their private dataset.

### Teaching Assistant, LUMS

Sep 2022 - Dec 2022

- Teaching Assistant for the course Operating Systems, CS 370

### Backend Developer, Motive (USA)

June 2022 - Aug 2022

- Remote Back-end developer. Frameworks used: Ruby on Rails, GoLang

### Software Developer (Part-time), Qosain Scientific

Sep 2020 - Dec 2021

- Embedded Programming in C.
- Frontend development using HTML, CSS, JS
- Windows application development in .NET C#

## PROJECTS

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### Freelance work

Sep 2023 - Present

- [Scents500](#) - *Shopify Store*
- [PBICarServices](#) - *NextJS Full Stack application*
- [FUTrunks](#), [VillaVista](#), [LinkersUK](#) - *Wordpress Projects*

### Alissa Chatbot - Google Play | *React Native (Frontend), Python (Backend)*

June 2021

- Solo project. Released two versions to the Google Play store. Details can be found at this [link](#)

### Ghambeel - Google Play | *Flutter*

April 2022

- Group project (team of 5) for the Software Engineering course

## TECHNICAL SKILLS

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**Programming Languages:** Python, C/C++, JavaScript, HTML/CSS, SQL, C#

**Machine Learning:** PyTorch, Transformers, OpenCV, Scikit-learn, Langchain

**Software Development:** NextJS, Node.js, Express.js

**Technologies:** Docker, AWS, Vector Databases