Hisan Naeem

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EDUCATION

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

Machine Learning & Software Engineer, Tibbling AI (stealth startup)   June 2023 - Jan 2025

2D Image Segmentation (Instance & Semantic)
- Built a segmentation pipeline with active learning and on-the-go finetuning
- Finetuned models like Detectron2, MobileSAM, HQ-SAM, YOLOv11 and Google ViT.
- Flow: Users provide partial/minimal ground truth `->` Our pipeline accurately segments all neurons in brain MRI scans.

Chat Agent
- Multi-Agent system that enables users to dynamically run queries and execute arbitrary code on pandas dataframes, allowing them to compare dataframes and generate highly customized plots
- Complex custom agent with tools, built on top of multiple LLMs, like Llama 405B and GPT-4o-mini

Tibbling Webapp
- Built a multi-layered webapp from scratch involving NextJS frontend, Node JS backend, and multiple FastAPI microservices
- Used Tailwind CSS for UI styling, Plotly JS for interactive visualizations, and 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

Freelance work   Sep 2023 - Present
- Scents500 - *Shopify Store*
- PBICarServices - *NextJS Full Stack application*
- FUTranks, 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

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