

MUHAMMAD QASIM

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OBJECTIVE

My objective is to **give back** to my society by excelling in the field of deep learning and software engineering. With a passion for learning, I am constantly seeking opportunities to expand my knowledge and skills to achieve success and make a positive impact

EDUCATION

2018-2019	O-levels , Islamabad, The City School, 8 A* 2 A
2019-2021	A-levels , Islamabad, Roots, 3A* 1B
2021-Present	Bachelors of Software Engineering , Islamabad, NUST Statistics A , Fundamentals of Programming B+, Linear Algebra B+ , OOP B, DSA B, CGPA: 3.26

SKILLS & ABILITIES

- Proficient in **Python**, Java, and Dart programming languages.
- Skilled in building complex models using **PyTorch** and Tensorflow.
- Proficient in **GitHub** for version control and collaborative development.
- Strong foundation in **Statistics** and **Linear Algebra**.
- In-depth knowledge of **CNNs**, **GANs**, and **Transformers**.
- Enthusiastic and **inquisitive learner**, particularly passionate about **computer vision** in academia and beyond.

EXPERIENCE

2023/06 to
2023/09

Designation: Research Internee

Organization: National Centre of Artificial Intelligence
Deep Learning Lab

Work : Action Transformers for Natural Language Interaction with the Web.

Supervisor : **Muneeb Muhammad**

Fine-tuned and tested various deep learning transformer models such as **MarkupLM** and **WebN-T5** to improve natural language interactions with the web. **Using the WebSRC dataset**, I evaluated the models on web navigation and webpage question answering tasks, comparing their **precision, recall, exact and f1-score** to the SOTA. I also re-implemented a state-of-the-art approach and achieved promising results. This demonstrates my ability to work with real-world datasets and stay on the cutting edge of research.

2023/08 to
2023/09

Designation: Freelancer

Organization: Upwork

Work: Image Colorization with GANs:

I worked on image colorization, a visually impactful task. I **re-implemented** existing methods such as the **pix-2-pix architecture** and introduced my own **novel approach** using **Generative Adversarial Networks (GANs) with self-attention**. By creating a **custom accuracy metric** for pixel-wise evaluation, I found that my GAN-based approach **outperformed others**, indicating my practical skills in experimenting with advanced deep learning techniques.

COMMUNICATION

My participation in various **debating** conferences and my exposure to a myriad of **on-campus societies and clubs** helped me develop **exceptional communication skills**, allowing me to engage in diplomatic discussions, collaborate with people of diverse backgrounds.

LEADERSHIP

As our high school **basketball team captain**, I led, scheduled practices, devised strategies, and fostered teamwork. In **challenging circumstances**, I motivated our team to fight, honing my **leadership, communication, and teamwork skills** for personal and professional life.