

Ahsan Bilal

abilal.bee20seecs@seecs.edu.pk | [GitHub](#) | Islamabad | [LinkedIn](#)

EDUCATION

National University of Sciences and Technology

Islamabad, PK

Bachelor of Electrical Engineering (Major: Microprocessors Systems, Computer Networks, Machine Learning) **Expected June 2024**

- Cumulative GPA: 3.67 (6 Semesters)

WORK EXPERIENCE

Research Intern

Islamabad, PK

OPTIMAL MACHINE LEARNING – Lab, SEecs - NUST

During my summer internship, I am engaged in working on my Final Year Project (FYP) titled "**Gait Recognition and Analysis Using Human Poses.**" Under the guidance and supervision of **Dr. Salman Ahmad**, my primary objective is to develop a hybrid model capable of learning sequence parameters through both video frames and the poses extracted from these frames. Using **Conv3D**, **LSTMs** and **GRUs**

June 2023 – Present

UG Research Assistant

Islamabad, PK

CSN – ML Lab, SEecs - NUST

As a research assistant, I collaborate with master's students under the supervision of **Dr. Rehan Ahmed** and **Dr. Rizwan Ahmed** on machine learning and deep learning projects, working on tasks such as data augmentation and data labeling task for the optimization of the machine learning model for **UAVs Landslide Imaging**.

Feb 2023 – August 2023

UG Summer Intern

Islamabad, PK

IC Design Lab, SEecs - NUST

As an IC design summer intern, I gained hands-on experience working with **STM 32** discovery board and developing various applications, including **RFID** systems and **TTL** display using **embedded C** and **Cube IDE**. This opportunity allowed me to strengthen my technical skills, while working collaboratively in a team environment to deliver high-quality results.

June 2022 – Aug 2022

SJCurve

Dubai, Remote

UI/UX Designer and Developer

- As a UI Designer, I create responsive web apps with WordPress, design user-friendly interfaces, and collaborate seamlessly across teams during my employment in **sjcurve**. My focus is on delivering exceptional UI, staying updated with design trends, and enhancing user satisfaction. Design and **Develop** the website along with the SEO

June 2021 – July 2021

Projects

- Human Gait Recognition System (FYP - Ongoing):
- Malaria Detection Model (LeNet) TensorFlow [Github](#)
- Human Emotion Detection (EfficientNet) Tensorflow [Github](#)
- Audio Matching Shazam Style Using Hashing using Python [Github](#)
- Dual Axis Solar Tracker with Battery Charger using Arduino [Github](#)
- Obstacle Avoiding Robot using Arduino [Github](#)
- RFID Based Security System with STM32 Discovery Board [Github](#)
- Live Feed Surveillance Robot using Raspberry Pi 4
- RFID Door Opening with Local Server Using Atmega32 and ESP32 [Github](#)

Certificates

- Introduction to Tensor Flow to Artificial Intelligence, Machine learning and Deep Learning.
- Deep Learning Specialization (3/5) on going

EXTRACURRICULAR ACTIVITIES

- Deputy Director of Team Graphics in **Orientation of Nust 2022**
- Team Member **ICAI'21**
- Former Lead Creativity in Google Developers (**GDSC - Nust**).
- Executive Member **Khalq Foundation 2022**
- Team Member National Literary Festival **NLF'21**
- Executive Member **TABA** Youth Chapter Nust

Skills

Languages: Python, C/C++ , embedded C, Javascript (React.js), HTML/CSS, Next.js

Programming: PyTorch, Keras, OpenCV

Tools: MATLAB, STM Cube IDE, VS Code, Git, AutoCad, Figma, PyCharm, Raspberry Pi OS