SAQUIB ALI

New Delhi, India 110025 | +91 8969226710 | alisaquib95@gmail.com
Github: https://github.com/saquibali7
Linkedin : https://www.linkedin.com/in/saquib-ali-89aa14202/

EDUCATION

- **Bachelor of Technology - Computer Engineering : Aug 2020 - May 2024**
  Jamia Millia Islamia , New Delhi

  Current CGPA : 9.48

- **Senior Secondary High School : Aug 2017 - March 2019**
  Jamia Millia Islamia , New Delhi

  Subjects : Physics, Chemistry, Mathematics, English and Economics : 91.6%

WORK EXPERIENCE

University of Bonn
Research Intern | June 2023 - June 2023
- Implemented the code for finding the human pose motion pattern in the video data where human motion data was given in inertial measurement unit (IMU) data using KD Tree and the Python library scikit-learn.

MixORG
Research Intern | September 2022 - March 2023
- Worked on the problem related to the selection of human blastocyst (developed stage of embryo) for implantation with deep learning.
- Implemented the code for generating the next frames of different cell cleavage stages in embryo development videos in Tensorflow using cycleGAN and ConvLSTM model.

IIIT Allahabad
Summer Research Intern | June 2022 - August 2022
- Worked on the problem related to the diagnosis of autism spectrum disorder using eye-tracking data.
- Implemented the code of the eye-tracking system using TensorFlow and OpenCV. Also experimented with different CNN and LSTM models for the classification of ASD and non-ASD using eye-tracking data.

SKILLS

- **Programming Languages:** C, C++, Python, Javascript

- **Library and Frameworks:** TensorFlow, PyTorch, OpenCV, Flask, React, NodeJs

- **Database:** MySQL, mongoDB

- **Tools & Technologies:** Git, Github, Linux, VS code, Colab, Jupyter notebook

PROJECTS

- **Movie Recommender System**

  Made a movie recommender system based on content similarity. Using the details of the movie including movie overview, genre, actor, and director and then cosine similarity, which generates the similarity between movies. Made it a web application using the python flask framework, where for every movie top 8 similar movies will be recommended based on the similarity.

- **micro-db**

  Made a project with the name micro-DB, a record management system in a hackathon for microbiology departments, using a dummy record database with around 30,000 records.
  Built tools to analyse and even predict susceptibility trends of bacteria against some antibiotics using linear regression. This can help doctors and physicians provide more effective antibiotics over time.
  Frameworks used were NodeJS, ElectronJS and MongoDB database.

- **Eye Gazing**

  Implemented the code of eye gazing (prediction of the line of sight of the pupil) from a research paper using TensorFlow and OpenCV library. The line of sight was calculated with 96% accuracy.

- **Sketch2Face**

  Implemented the code of pix2pix GAN in PyTorch for converting face sketch images to real face images (image-to-image translation). Converted it into a web application using the Flask framework

ACCOMPLISHMENTS

- **DAAD WISE Scholar 2023:** Received the DAAD WISE scholarship 2023 for a research internship in **Germany** at the University of Bonn.

- **Finalist of Smart India Hackathon 2022:** Producing Super Resolution of DEM (Depth Elevation Map) for problem statement of ISRO.

- **First position in HACK JMI 2.0 Hackathon:** For making the project micro-db

PUBLICATIONS

- **Super-Resolution of Digital Elevation Models(DEM) using Adverserially Trained transformer based Convolutional Residual Network with Attention (Paper Accepted & Presented in IGARSS-2023) DOI: 10.1109/IGARSS52108.2023.10283196**

- **Lexical Squad@Multimodal Hate Speech Event Detection 2023: Multimodal Hate Speech Detection using Fused Ensemble Approach (Paper Accepted & Presented in in RANLP 2023) https://aclanthology.org/2023.case-1.12**