SAQUIB ALI

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EDUCATION:

- **Bachelor of Technology - Computer Engineering : Aug 2020 - JUN 2024**
  Jamia Millia Islamia , New Delhi
  Current CGPA : 9.5
- **Senior Secondary High School : Aug 2017 - Jun 2019**
  Jamia Millia Islamia , New Delhi
  Subjects : Physics, Chemistry, Mathematics, English and Economics : 91.6%

WORK EXPERIENCE:

University of Bonn
Research Intern | June 2023 - July 2023
- Worked on finding the specific motion pattern in video data using KD tree. Transfer the codebase from matlab to python

MixORG
Research Intern | September , 2022 - Mrach 202
- Working on the problem related to selection of human blastocyst (developed stage of embryo) for implantation with deep learning.
- Implementing the code for generating the next frames of different cell cleavage stages in an embryo development videos.

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 eye tracking system using TensorFlow and OpenCV. Also experimented with different CNN and LSTM model for diagnosis of Autism Spectrum Disorder using eye tracking data.

Volunteer experience :

IEEE CS JMI
Web Development Team Member | July 2021 - July 2022
- Working in a team for planning website development, converting mockups into usable web presence with Javascript library React.
- Coded the website of society using Javascript library React the website contains details about the society and update on event details organized by the society.

GDSC JMI
Machine Learning Team Member | September 2022 - March 2023
- Working in the machine learning team, where we organize events, hands on session, inviting speakers from academia and industry to give talks on topics related to machine learning.

SKILLS :

- **Programming Language : C, C++, Python, Javascript**
- **Library and Frameworks : TensorFlow, PyTorch, OpenCV, Flask, React, NodeJs**
- **Database : MySQL, mongoDB**
- **Tools and Technologies : Git, Github, Linux, vscode, colab, Jupyter notebook**

PROJECTS :

- ### Movie Recommender System

  Made a movie recommender system based on content similarity. Use the details of the movie including movie overview, genre, actor, and director. And then uses the cosine similarity function, which generates the similarity of every movie with all the other movies. Further make it a web application using the python flask framework, where for every movie top 8 similar movies will be recommended based on the similarity. link of the website: https://notoriousrocket.herokuapp.com/

- ### 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, and built tools to analyze and even predict susceptibility   trends of bacteria against some antibiotics using linear regression. The medical term for these trends is "Antibiograms". This can help doctors and physicians to provide more effective antibiotics over time. Frameworks used were nodejs, electronjs and MongoDB database

- ### Machine Learning Projects

  Eye Gazing : Implemented the code of eye gazing (prediction of line of sight of pupil) from a research paper using TensorFlow and OpenCV library

  Super Resolution : Implemented the code various super resolution including of D-SRGAN (DEM specific SRGAN) and WGAN for super resolution of Depth Elevation Map (DEM) in PyTorch

  Sketch2Face : Implemented the code of pix2pix GAN in PyTorch for converting face sketch image to real face image (image to image translation). Further convert it into a web application using Flask framework

  Projects Repo Link https://github.com/saquibali7/Machine_Learning_Projects

ACCOMPLISHMENTS :

- **DAAD WISE Scholar 2023 : Received the DAAD WISE scholarship 2023 for reseach internhsip in Germany at the university of Bonn**
- **Finalist of Smart India Hackathon 2022 for ISRO problem statement : Producing Super Resolution of DEM (Depth Elevation Map).**
- **First position in HACK JMI 2.0 Hackathon : For making the project micro-db**