Saquib Ali

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Education

- **Jamia Millia Islamia** — New Delhi, India
  Bachelor of Technology in Computer Engineering; GPA: 9.48/10 — *Sept 2020 - May 2024*

Skills Summary

- **Programming Languages**: C, C++, Python, SQL, Javascript
- **Library and Frameworks**: TensorFlow, PyTorch, OpenCV, Flask, React, NodeJs
- **Tools and Technologies**: : Git, Github, Linux, VS code, Colab, Jupyter notebook

Experience

- **University of Bonn** — Bonn, Germany
  Research Intern - Prof. Bjorn Krueger — *June 2023 - June 2023*
  - **Finding human motion pattern in Video**: Implemented the code to identify human pose motion patterns within video data, where video data was available in inertial measurement unit (IMU) data. The primary objective was to pinpoint the timestamps corresponding to significant motion events in the video. This task was accomplished through the KD Tree and leveraging the capabilities of the Python library scikit-learn.
- **MixORG** — New Delhi, India
  Research Intern — *September 2022 - March 2023*
  - Worked on the problem related to selecting human blastocysts for implantation through deep learning techniques.
  - Developed and implemented code using TensorFlow to generate subsequent frames representing various cell cleavage stages in embryo development videos.
  - Utilized a combination of cycleGAN (Generative Adversarial Networks for image translation) and ConvLSTM (Convolutional Long Short-Term Memory) models for accurate frame generation. Implemented a classification system for blastocyst videos into different categories of avoid, freeze, and transfer using 3D CNN
- **IIIT Allahabad** — Allahabad, India
  Summer Research Intern - Prof. Vijendra Singh — *June 2022 - August 2022*
  - **Autism Spectrum Disorder diagnosis using eye tracking data**: 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.

Publication

- **Master GAN: Multiple Attention is all you Need: A Multiple Attention Guided Super Resolution Network for Dems**: A Mohammed, M Kashif, MH Zama, MA Ansari, **S Ali**. IGARSS 2023, IEEE International Geoscience and Remote Sensing Symposium
- **Lexical Squad@Multimodal Hate Speech Event Detection 2023: Multimodal Hate Speech Detection using Fused Ensemble Approach**: Mohammad Kashif, Mohammad Zohair, **Saquib Ali** (Paper Accepted and Presented in RANLP 2023)

Academic Projects

- **Movie Recommender Systerm**: Developed a movie recommender system based on content similarity using the details of the movie including movie overview, genre, actor, and director, and then use the 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 (Jan 2022)
- **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 analyze 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. (Oct 2021)
- **Hate Speech Detection**: Implemented a PyTorch codebase for detecting hate speech in images containing text data. Extracted features from text using pre-trained BERT and XLNET models, and features from images using pre-trained InceptionNet. Integrated these features from text and image by concatenating them and fed the combined features into a dense layer for classification. (Jnuen 2023)
- **Sketch2Face using pix2pix**: Developed a PyTorch implementation of the pix2pix GAN for translating face sketch images into realistic face images (image-to-image translation). Extended the functionality by transforming the code into a web application using the Flask framework.(sept 2022)

Honors and Awards

- DAAD WISE Scholar 2023: Received the DAAD WISE scholarship 2023 for research internship in Germany at the University of Bonn.
- Grand Finalist of Smart India Hackathon 2022: Producing Super Resolution of DEM (Digital Elevation Map) for problem statement of ISRO.
- Hack-JMI Hackathon Winner - October 2021