Muhammad Hassaan Ibrahim

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EDUCATION

Pakistan Institute of Engineering and Applied Sciences   Islamabad, ICT
Bachelor of Science in Computer Science   *Sept. 2020 – Present*

- **GPA:** 3.40/4.00 (As of May 2023)
- **Relevant Coursework:** Artificial Intelligence, Machine Learning, Natural Language Processing, Data Structures and Algorithms, Object-Oriented Programming, Computer Organization and Assembly Language, Database Systems, Operating Systems, Software Engineering.

TECHNICAL SKILLS

Languages: Python, Dart, C/C++, SQL (Oracle/SQL Server), JavaScript, HTML/CSS, Dart, LaTeX
Frameworks: Flask, Flutter
Developer Tools: Git, SQL Server, Oracle SQL, Jupyter Notebook, VS Code, Visual Studio, PyCharm
Libraries: pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Keras, BeautifulSoup, Scrapy, Selenium, OpenCV, NLTK

PROJECTS

Pakistan Sign Language Recognition | *github.com/hass44/PSL_Recognition*   Nov 2022 - Dec 2022

- Developed an **LSTM**-based model using **TensorFlow (Keras)** in **Python** for Pakistan Sign Language recognition. Used **sk-learn** for helper functions
- Devised a customized method for organizing the training dataset by leveraging **OpenCV** to capture images of hand signs. This approach allowed for efficient collection and curation of the dataset, leading to higher-quality data for training the model
- Implemented **MediaPipe** solutions to detect landmarks and extract keypoints
- Achieved a high level of accuracy when testing the model with live data

Twitter Bot Detection | *github.com/hass44/DNNforBotDetection*   March 2023 - Present

- Developed a **Keras**-based model in Python for identifying Twitter bots and detecting suspicious behavior
- Designed bot classification based on account and individual tweets
- Implemented various machine learning algorithms, including DNN and AdaBoost, to classify Twitter accounts as bots or legitimate users
- Achieved high accuracy rates on both training and test datasets, demonstrating the effectiveness of the model in identifying Twitter bots.

LEADERSHIP & EXTRA-CURRICULAR

Google Developer Student Clubs Campus Lead   August 2022 – Present
See all activities

- Led a team of 20+ Core Team members, overseeing all aspects of club activities and initiatives.
- Initiated and handled partnership wit DataCamp, providing $15,000 scholarship worth of licenses for club members
- Organized and hosted a variety of on-campus and online speaker sessions, bringing industry experts to campus to share their knowledge and insights with club members
- Coordinated 25+ workshops, including boot camps focused on topics such as Web Development, Flutter App Development, Artificial Intelligence and Web3
- Fostered a supportive and inclusive environment within the club, mentoring and guiding individual members to help them develop their skills and achieve their goals in tech-related fields. Led growth from 280 to 500+ members.