Yashraj Sanjay Kadam

Roll No.: 22BDS066
Data Science and Artificial Intelligence
Bachelor of Technology (B.Tech)
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TECHNICAL SKILLS AND INTERESTS

Languages: C, C++, Java, Python, Dart
Developer Tools: Git and Github, Jupyter Notebook, Android Studio, Visual Studio Code
Frameworks: Flutter
Cloud/Databases: Google Cloud Platform (GCP), Firebase
Areas of Interest: Application Development, Data Science, Machine Learning and Quantum Computing

EXPERIENCE

- **Flutter Development Intern**   *Aug '23 - Apr '24*
  funded by Indian Knowledge Systems(Division of MoE, AICTE)   Remote
    - Building a Mobile application on a ML research project based on Ancient Text Analytics under a faculty mentor.
    - Integrated OCR using Tesseract (LSTM-based model) for multilingual text recognition.
    - Built a translation feature for 14 Indian languages including English, Hindi, Sanskrit, and more.
    - **Tech Stack**: Flutter, Firebase, Google Cloud, Python, Nodejs

PERSONAL PROJECTS

- **iRescue**
  Emergency response mobile application
    - Tools & technologies: Flutter, Android Studio, Dart, Firebase
    - This cross-platform mobile application is designed to provide critical assistance during emergencies. Tailored features cater to specific user groups, including firefighters, ambulance personnel, police officers, and general users. Leveraging Flutter for cross-platform compatibility, Firebase for backend services, and the Google Maps API for location accuracy, the app delivers real-time information to both users in need and emergency responders. Key features include live video streaming for situational awareness and chatbot assistance for immediate support.
    - **Project link**

- **echo.ai**
  Deepfake Speech Detection
    - Tools & technologies: Python, Speech Processing, Streamlit
    - This work focuses on developing a Streamlit dashboard to combat the growing threat of synthetic speech. The dashboard provides a user-friendly interface for detecting spoofed audio by employing a robust binary classification framework. This framework leverages powerful pretrained models such as Wav2Vec2 with BiLSTM, WavLM, HuBERT, and ResNet, which are capable of extracting rich spectral and temporal features from audio signals. Fine-tuning these models on the ASVspoof 2019 dataset enables accurate and robust detection of deepfake audio.
    - **Project link**

- **Mess Register**
  Mess Register Management Mobile Application for IIIT Dharwad Hostel
    - Tools & technologies: Flutter, Android Studio, Dart, Firebase, Google Cloud Platform
    - Developing and Designing an app aimed at streamlining mess register management in college environments utilizing Flutter and Dart for development, incorporating features such as user authentication using QR code on ID card, item and quantity selection and appending data into google sheets by integrating google sheet API.
    - **Project link**

EDUCATION

- **Indian Institute of Information Technology, Dharwad**   *Present*
  B Tech., Data Science and AI   CGPA: 8.72

POSITIONS OF RESPONSIBILITY

- **AI/ML Core Team Member** Google Developer Student Club(GDSC IIIT Dharwad)
- **Photographer** IRIDESCENCE (Photography and Videography Club of IIIT DWD)

ACHIEVEMENTS

- **All India Rank 28924 in JEE Advanced out of 150k candidates in India**   *2022*
- **All India Rank 49979 in JEE Mains out of 1.5M candidates in India**   *2022*
- **Appeared for the SSB interview for both the Indian Army and Navy.**   *2022*