V S Abhinav Rahul Gandrakota

Linkedin| Github| Personal Website abhinavrahul1011@gmail.com | (+91)7043062888 | f20191354@hyderabad.bits-pilani.ac.in

EDUCATION

BITS PILANI

B.E. ELECTRONICS &
INSTRUMENTATION
2019-2023 | Hyderabad,India
MINOR IN DATA SCIENCE
2021-2023 | Hyderabad,India

COURSEWORK

UNDERGRADUATE

Discrete Mathematics
Data Structures and Algorithms
Operating Systems
Object Oriented Programming
Foundations of Data Science
Applied Statistical Methods
Machine Learning
Artificial Intelligence
Natural Language Processing
Linguistics

SKILLS

PROGRAMMING

LANGUAGES:

Python • C • C++ • Java • Matlab • SQL • AIML

TECH STACK:

NumPy • Pandas • PyTorch • Tensorflow • Flask • SpringBoot

CERTIFICATIONS

MACHINE LEARNING

Coursera | 8 Weeks | MATLAB

DEEP LEARNING SPECIALIZATION

Coursera | Ongoing | Tensorflow

EXTRA CURRICULARS

CLUBS

ENGLISH LANGUAGES & ACTIVITIES

Parliamentary Debating

PHoENIX:

SOCIETY:

Robotics

(LaW Follower, Sequential Co-op, Quadcopter)

WORK EXPERIENCE

NORTH EASTERN SPACE APPLICATIONS CENTRE | ML INTERN

May 2021 - July 2021 | Summer Internship

- Worked in a team of 5
- Project involved development of DL pipeline for 3D semantic segmentation task performed on drone and satellite generated images
- Web based/Desktop based visualization of results using inference servers; here 'Triton Inference Server'

PROJECTS

SIGN LANGUAGE TRANSLATION | NLP · DL · COMPUTER VISION

Mar 2022 - Apr 2022 | PyTorch · Transformers · Huggingface

- End-to-end model consists of CNNs, Transformer encoder layer and Transformer decoder layer
- Processed video sequences containing German Sign Language and produced translated German text
- Heavily fine-tuned the pre-trained T5-small model to leverage its existing German knowledge
- Github Repo: //Sign-Language-Translation

ALZHEIMER HELPER | AI CHATBOT

Sep 2020 - Nov 2020 | Flask · SQLite

- An Artificial Intelligence chatbot written using Python and AIML deployed on a Flask server API
- Allows Alzheimer patients to ask questions regarding themselves
- The patient's data and conversation with the chatbot is stored in an SQLite database on the server
- Github Repo: //AlzheimerHelper

LANGUAGE IDENTIFICATION FOR AUDIO INPUTS INLP

Sep 2022 - Dec 2022 | Tensorflow · Sklearn · Librosa

- Led a team of 3 for the project
- Preprocessed audio inputs consisting of 6 different Indian Languages using MFCC's.
- Trained both CNN and CRNN on the dataset and compared accuracy of language prediction.

RESEARCH

BITS PILANI | Undergraduate Researcher

Aug 2022 - Dec 2022 | Hyderabad,India

Worked with **Prof Ankur Bhattacharjee** on using AI/ML based algorithms for development and optimization of an efficient thermal management system for Vanadium Redox Flow Battery under different charge-discharge conditions for Electric Vehicle applications