

V S Abhinav Rahul Gandrakota

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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 • Tensorflow •

MySQL • Flask • SpringBoot

CERTIFICATIONS

MACHINE LEARNING

Coursera | 8 Weeks | MATLAB

DEEP LEARNING

SPECIALIZATION

Coursera | Ongoing | Tensorflow

EXTRA CURRICULARS

CLUBS

ENGLISH LANGUAGES & ACTIVITIES

SOCIETY:

Parliamentary Debating

PHOENIX:

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

MUTUAL BOOK EXCHANGE PORTAL | FULL STACK WEB DEV

Feb 2022 - Apr 2022 | SpringBoot • MySQL • Heroku

- Web-based Application that enables the registered users to exchange books they have with them, free of cost, for the purpose of temporary use, and return
- The Backend was created using SpringBoot, JPA and MySQL. The Frontend was created using HTML, Bootstrap and JSP. Hosting was done using Heroku
- Github Repo: //bookexchange

RESEARCH

BITS PILANI | UNDERGRADUATE RESEARCHER

Aug 2022 - Ongoing | Hyderabad, India

Working 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