

# 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
- 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