



Sakam SaiSanthosh

Roll No.:B21AI035

Artificial Intelligence and Data Science
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (AI&DS)	Indian Institute of Technology, Jodhpur	6.44	2021-present
Senior Secondary	Sainik School Korukonda (CBSE)	92.40%	2020
Secondary	Sainik School Korukonda (CBSE)	90.40%	2018

PROJECTS

- **MASS MAILING WEBSITE** Dec 2022 - Jan 2022
Website made for fest Prometeo, to send mails to 5000+ participants at once
– **Tools & technologies used:** HTML,CSS, Python,Django, Celery
– Implemented asynchronous mass mailing method using multi-threading with celery and concurrent.futures
- **EG WEBSITE** Dec. 2021 - Jul. 2022
Website of my own idea done under Engineering Design course
– **Tools & technologies used:** HTML, CSS, JavaScript, Django
– Developed a web project of my idea with a team of 8 in the first year.
– Developed the whole backend for the project in Django with the DBMS PostgreSQL
– Implemented asynchronous chatting system with WebSockets and Django channels.
- **SONGS RECOMMENDATION SYSTEM** Dec. 2022
Website replicating Spotify made for Mock-InterIIT
– **Tools & technologies used:** Python, Machine Learning, Numpy, Pandas
– Designed and implemented recommendation algorithms for recommending songs.
– Combined content-based filtering and collaborative filtering to recommend songs in most of the user scenarios.
- **THYROID HISTOPATHOLOGY IMAGE ANALYSIS** May 2023 - Jul 2023
Machine Learning project to identify best input technique for classifying thyroid histopathology images
– **Tools & technologies used:** Python, Machine Learning, Transformers, Numpy, Pandas
– Worked on a private dataset of Thyroid histopathology images and implemented models Visual Transformer and DEIT
– Combined information from both capsule and nodule images(two different types of tissue) to produce ROC_AUC score of 96%.
- **BREAST TUMOR TISSUE SEGMENTATION** August 2022 - April 2023
Machine Learning project to identify segmentation model for identifying breast tumor from UltraSound Images
– **Tools & technologies used:** Python, Machine Learning, Numpy, Pandas
– Implemented Image Segmentation with models PSPNet, DeepLabPlus and FPN with encoders resnet50, resnext50_32x4d, efficientnet-b3 and vgg16.
– Got best results from DeepLabPlus and resnext50_32x4d with iou score more than 97.

KEY COURSES TAKEN

- Data Structure and Algorithms, Pattern Recognition and Machine Learning, Maths For Computing, Probability, Statistics, and Stochastic Processes, Principles of Computer System

TECHNICAL SKILLS

- **Programming:** C++, Python
- **Libraries/Frameworks:** Pandas, Numpy, Tensorflow
- **Web Skills:** HTML/CSS/JS, Django

POSITIONS OF RESPONSIBILITY

- **Assistant Head** Web Development, Prometeo November 2022 - Jan 2023
- **Core member** Devlup Labs present