Sakam SaiSanthosh

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SKILLS

WEB DEVELOPMENT
Django • REST API • HTML5 • CSS • JavaScript

PROGRAMMING
C++ • Python • Git and GitHub

DBMS
MySQL • MongoDB • Neo4j

MACHINE LEARING
Neural Networks • Numpy • Pandas • Tensorflow/Keras • Pytorch

EDUCATION

IIT JODHPUR
B.Tech in Artificial Intelligence and Data Science
CGPA - 6.44
2021–2025

SAINIK SCHOOL, KORUKONDA
XII - 92.4%
2020
X - 90.4%
2018

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Principles of Computer Systems
Operating Systems
Computer Networks
Data Engineering
Pattern Recognition and Machine Learning
Probability, Statistics, and Stochastic Processes

POR
• Assistant head at Prometeo, Technical Fest of IIT Jodhpur
• Core member at Devlup labs, IIT Jodhpur

HOBBIES
Trekking
Cycling
Reading Novels and Books

EXPERIENCE

MAMPG COLLEGE WEBSITE | FreeLancer
Official website of MAMPG Institute | June 2023-Aug 2023

- Led the creation of MAMPG College's official website, managing a team of 7, designing the website's UI/UX and building the backend with the Django framework.
- Engineered an admin dashboard for college administrators to effortlessly manage website content by creating a user-interactive frontend with JavaScript and integrating it with the backend.
- Orchestrated AWS hosting for the website using EC2, S3 bucket, and RDS services and delivered the product within 3 months.

PROJECTS

THYROID HISTOPATHOLOGY IMAGE ANALYSIS | Neural Networks, Tensorflow/Keras
Research project under Faculty | May 2023-Jul 2023

- Explored and analyzed a private thyroid histopathology image dataset, implementing state-of-the-art deep learning models including ViT, ResNet50, DenseNet121, and EfficientNetB7 to optimize the input approach.
- Innovated a data fusion approach by integrating information from capsule and nodule images, resulting in significant enhancement of the ROCAUC score by an average of 7.62%.

MASS MAILING WEBSITE | HTML, CSS, Python, Django, Celery
Website for fest Prometeo | Dec 2022-Jan 2023

- Established efficient mail communication with over 5000 participants by orchestrating asynchronous mass mailing capabilities utilizing Celery framework and concurrent.future library.

CHAT APPLICATION | Django, REST API
Self assigned Team project

- Collaborated with a team of 5 and contributed to the project by integrating front end with database using Django REST API.
- Implemented the asynchronous chat system using WebSockets and Django channels and built user authentication with JWT tokens, completing the project in just 2 days.