Aark Deep Sarkar

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Summary

Innovative Computer Science and Engineering student from SRM KTR, with a strong foundation in Data Science, Deep Learning, Generative AI, and Full Stack Development. My expertise in Machine Learning fuels my pursuit of creating cutting   edge technological solutions. Looking for a job to gain more skills and experience in the tech world

Education

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY	Sep 2021 - Present
B.Tech · Computer Science and Engineering · Chennai	9.36
KENDRIYA VIDYALAYA	Mar 2020 - Feb 2021
12 · CBSE · Bilaspur	94.8
KENDRIYA VIDYALAYA	Mar 2018 - Feb 2019
10 · CBSE · Bilaspur	93.8

Experience

Codespeedy Technology Private Limited	Link	Jun 2023 - Nov 2023
Intern · Internship	Kolkata

- Performed data cleaning, analysis, and visualization tasks using Python and Tableau

- Developed machine learning models for predicting customer churn

- Presented findings and recommendations to the team

CodersCave	Link	Aug 2023 - Sep 2023
Intern · Internship	Remote

- Utilized Python for web scraping and data automation tasks.

- Analyzed website traffic data and reported insights to improve user engagement.

Projects

SKINSENSE | Link Jan 2024 - May 2024 SPRINGER PAPER PUBLISHNG · Deep Learning , Tensorflow , Data Analysis , Flask Healthcare Front-End Web Development

The project involves a comprehensive evaluation of diverse machine learning algorithms for the purpose of skin cancer detection. Through rigorous performance assessment, the study aims to identify the most effective and accurate algorithms in the realm of dermatological image analysis. This research contributes to the advancement of medical diagnostics, emphasizing the critical intersection of machine learning and healthcare to enhance the efficiency and precision of skin cancer detection methodologies

FIT-PAL | Link   Oct 2023 - Oct 2023

SRM UNIVERSITY · HTML , CSS , Javascript , ReactJS , NodeJS , Machine Learning   SOFTWARE

1.   Advanced Computational Interface: The system employs a state-of-the-art web architecture utilizing HTML5, CSS3, and JavaScript to deliver an intuitive and interactive user experience, facilitating precise input of anthropometric data.

2.   Analytical Proficiency: Back-end algorithms, developed using Python and the Flask micro-framework, rigorously compute Body Mass Index (BMI) and body fat percentage, offering users an accurate assessment of their physiological metrics.

CoalMaitreyi | Link   Aug 2023 - Sep 2023

SRM UNIVERSITY · Front-End Web Development , CHATBOT , NLP   SOFTWARE

Orchestrated the conception and implementation of an advanced chatbot, harnessing the capabilities of Natural Language Processing (NLP) to proficiently field legal inquiries within the intricate domain of the mining industry. This pioneering solution not only culminated in a marked augmentation of user experience but also markedly elevated the accessibility of pertinent information. The strategic integration of NLP mechanisms engendered a heightened capacity for nuanced comprehension and precision in responses, thereby optimizing the acquisition of legal insights within the specialized context of mining.

SPEECH EMOTION RECOGNITION | Link _____ Aug 2023 - Sep 2023

SRM UNIVERSITY · Machine Learning , Data Cleaning , Data Analysis , Pandas ,   SOFTWARE
NumPy , Python , LIBROSA

The project focuses on emotion prediction through speech analysis. By leveraging advanced audio processing techniques, it discerns and predicts the emotional state of individuals based on their vocal expressions. This capability has broad applications, including sentiment analysis, user experience enhancement, and emotional well-being assessments. The project underscores the intersection of technology and emotional intelligence, offering valuable insights into human affective states through the analysis of voice patterns

HUMAN ACTIVITY PREDICTOR | Link _____ Jan 2023 - Jul 2023

SRM UNIVERSITY · Machine Learning , Deep Learning , Data Analysis   SOFTWARE

My project entails the predictive analysis of human activities, discerning states such as sleep, walking, jogging, running, or sitting. This is achieved through the analysis of data collected from various wearable devices such as watches and mobiles. The application of advanced algorithms enables accurate classification and prediction of human body actions, contributing to the field of activity recognition and enhancing the functionality of wearable technology

MULTI MODAL TRANSCRIPTION SYSTEM | Link _____ Jan 2023 - May 2023

SRM UNIVERSITY · Machine Learning , HTML , CSS , Javascript , Flask   SOFTWARE

My project involves the sophisticated process of transcribing audio files into textual documents, while also offering the capability to convert image files into corresponding text representations. This innovative functionality enhances accessibility and usability by providing a seamless conversion between different modalities of data.

Certifications

Machine Learning Fundamentals Micro-Credential | Link   Jun 2024 - Jun 2026

Alteryx   May 2024 -

Data Engineering Professional Certication

ALTAIR Company

Publications

Soft Computing and Signal Processing | Link
SPRINGER NATURE

Conferences and Workshops

E-GNITE   Mar 2024

SRM Institute of Science & Technology, Kattankulathur

- Entrepreneurship
- Leadership Skills

SHARDEUM   Jan 2023

SRM Institute of Science & Technology, Kattankulathur

- Blockchain

CRITICAL THINKING,PROBLEM SOLVING SKILLS AND PERSONALITY   Sep 2022

SRM Institute of Science & Technology, Kattankulathur

- Critical Thinking
- Problem Solving
- Personality Development

Skills

C, C++, Python, Java, Machine Learning, Deep Learning, Generative AI, OpenCv, Numpy, Data Science, Pandas, ScikitLearning, Tensorflow, Data Analysis, SQL, JavaScript, ReactJs, NodeJs, Flask, Tableau, Power BI, Matplotlib, Seaborn, Yolo,

NLTK, Pytorch, Data Mining, Databases, Data Engineering, Data Structure, Cyber Security

Languages

Bengali [Elementary Proficiency], Hindi [Professional Working Proficiency], English [Professional Working Proficiency]

Links

GitHub, CodeChef