📞 Call me
📍 India
Andhra Pradesh
✉ VivekSai

Tekumudi Vivek Sai Surya Chaitanya

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ABOUT ME

As an AI-focused computer science student, I am dedicated to expanding my knowledge and skills in machine learning, deep learning, and reinforcement learning. Passionate about the potential of AI to solve complex problems and make a positive impact, I am eager to work on innovative projects and collaborate with experts in the field to develop cutting-edge AI systems.

EDUCATION

B.Tech in Computer Science & Engineering (Artificial Intelligence)

AMRITA VISHWA VIDYAPEETHAM, SCHOOL OF COMPUTING, *India, Chennai*   10 2020 — 05 2024

Intermediate

NARAYANA JUNIOR COLLEGE, *India, Andhra Pradesh*   06 2018 — 04 2020

SKILLS

Tools and Languages	Java, Python, LaTeX, Pandas, Eclipse, VS Code, MATLAB, Jupyter, MySQL, Arduino Uno, Linux, Git, OpenCV, TensorFlow, Keras, PyTorch, Matplotlib, Seaborn, pandas, numpy, scikit-learn
Hard Skills	Predictive Modeling, Regression, Classification, Natural Language Processing, Data Structures
Related Course-works	Python for Machine Learning, Object Oriented Programming, DBMS, Problem Solving Strategies, Data Structure and Algorithms
Communication	Telugu (Native), English (IELTS: 7.5), German-A1

WORK EXPERIENCE

Research Intern - Emerging AIoT Based Medical Imaging Device Development   **June 2023 —- July 2023**
IIITDM Kancheepuram

- The primary objective of the research was to achieve precise Liver Tumor Classification. So, I've developed and implemented an innovative model that combines keras pre-trained models with vision transformers (HybridViT). By employing deep learning algorithms and image processing techniques, I made valuable contributions to the progress of medical imaging technology.

PROJECTS

SentimentBlend: Unified Facial and Text Emotion Analysis

- Facial sentiment prediction using Support Vector Machine with 68 facial landmarks and text sentiment analysis, this project serves marketing, and virtual reality applications, ensuring accurate emotion analysis. has been developed.

Image Colorizing using AI

- The model was developed using fast.ai's deep learning library and utilizes a Generative Adversarial Network (GAN) architecture.

CineSphere: Personalized Movie Explorer with K-Means Recommendations

- CineSphere, a personalized movie companion, uses K-Means clustering to recommend 15 films based on user preferences. Input liked movies, and enjoy a tailored list deployed on Heroku for a curated viewing experience.

Ensemble Classification for Chest Cancer Diagnosis from Diverse CT Scan Images

- Ensemble model, incorporating EfficientNetB3, ResNet50, and InceptionV3, categorizes chest CT-scan images into cancer types. In-depth analysis aids precise diagnoses, providing crucial insights for effective treatment strategies.

RESEARCH PROJECTS

Sarcasm Detection in Telugu and Tamil: An Exploration of Machine Learning and Deep Neural Networks   **ICCCNT 2023 – Published**

- The goal of the research is to develop a model that can accurately detect sarcasm in these languages and improve communication in online environments where sarcasm is often used.

Numerical Solution of First and Second Order Differential Equations with Deep Neural Networks   **AIC 2023 – Published**

- The proposed methodology showcases deep learning's potential in transforming differential equations and computational mathematics, yielding impressive results.

Extractive Document Summarization with Advanced Deep Reinforcement Learning   **IC3I 2023 – Published**

- An innovative approach that combines the power of deep learning algorithms with reinforcement learning to automatically generate concise and informative summaries from large documents

MedDQN: A Deep Reinforcement learning approach for Biomedical Image classification   **GCITC 2023 – Published**

- Utilized a DRL model that excels in biomedical image classification by addressing imbalanced data distributions, demonstrating exceptional sensitivity to minority class samples and improving overall classification accuracy.