SAM NIJIN S

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EDUCATION

B.E Computer Science and Engineering Aug 2020 - June 2024
Anna University, Tamilnadu, India 8.26 CGPA

TECHNICAL SKILLS

Programming: Python3 (Tensorflow, Keras, Open-CV, Scikit-Learn, Pandas, Scipy, Numpy, Matplotlib, Seaborn, Beautiful Soup), ReactJS (Hooks, Redux) SQL, HTML5, CSS3, SCSS, Tailwind CSS, Boot Strap CSS.
Tools: Git Version Control , CLI, Jupyter Lab, Spyder, Pycharm , Visual Studio Code, Figma.
Database: PostgreSQL, IBM DB2, MySQL, Microsoft Azure SQL, Microsoft SQL Server, Oracle Database.
Operating System: Linux, Windows, Mac OS.
Cloud Computing Platforms: AWS (IAM), IBM Watson Studio.
Key Specialization: Data Structures & algorithms, Object-Oriented Programming, Story Teller, Presentation, Highly Interactive, Leading, Public Speaking, Decision Making, Research, Statistical Data Analysis, Data Visualization, Networks.

EXPERIENCE

Artificial Intelligence Research Intern at Zetpeak Aug 2023 - Present
- Researching on Voice Based Device Control, an better and reliable algorithm to capture and recognizes the voice of people.
- Leading the AI Research interns in collaboration with IoT and Python interns for better outcome of research application.

Data Analytics Intern at IneuronAI Mar 2023 - Jun 2023
- Utilized Power BI tool for data visualization, analyzed the data and visualized the insights for better understanding.
- Used python, pandas and numpy for pre processing the dataset. This involves the removal of NaN values and duplicated values and encoded the into numerical values to improve the analytics with more efficiency and reliability of the findings.

Data Scientist Intern at Devtown Jan 2023 - May 2023
- Used Melanoma Cells data set from kaggle and implemented image augmentation and pre processing techniques to improve the evaluation metrics of the model in diagnosis used VGG16 Algorithm to improve the model performance and efficiency.
- Made Exploratory Data Analysis on walmart, google play store and IMDB data sets and presented findings and predictions.

PROJECTS

Netflix Clone: An React Application January 2023
- Used Rest API to access the data from API provider **TMDB Movies** database and to display the content in the application.
- Leveraged the use of tailwind CSS and lazy loading to enable the better UI and optimized page for fast loading & performance.

Harmonizing Technology and Nature: Real-Time Coconut Tree Detection Using YOLOv5 and Drones August 2023
- Applied YOLOv5 Algorithm with SGD optimizer to get a higher precision of detecting object, compared ten models of YOLOv5.
- Deployed **YOLOv5n6** weights in the **Raspberry PI 4 Model b** which is attached to flight controller board to implement in drone for real time object detection, evaluated and acquired good results and performance metrics in 30 FPS live video.

Covid-19 Pneumonia Diagnosis Using Ensemble and Transfer Learning Techniques August 2023
- Designed and implemented the ensemble techniques using deep neural network to enhance the performance metrics.
- Engineered a high-precision lung CT scan recognition model for seamless prediction in django app, leveraging transfer learning using **ConvNextXlarge, Inception Resnet V2 50, Densenet** pretrained models, achieving good results in prediction.

Indian Sign Language Hand Gesture Interpreter Using Machine Learning (SILANG) March 2023
- An **IEDC funded project**, Collected the custom Indian Sign Language hand gestures with reference to **ISLRTC**, and pre-processed the images with techniques like **Histogram Equalization, Noise Reduction, Feature Scaling and Resizing**.
- Deployed the application in Raspberry PI Desktop Operating System on Raspberry PI 4 Micro Controller with ultra low latency.

CERTIFICATIONS

- IBM Data Science Professional Certificate - Coursera
- Machine Learning for all - Coursera
- Python (basic) skills Assessment - HackerRank
- SQL (intermediate) skills Assessment - HackerRank

LANGUAGE SKILLS

- English
- Tamil
- Malayalam