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, SQL, HTML5, CSS3, SCSS, Tailwind CSS, Boot Strap CSS.

Tools: Git Version Control , CLI, Jupyter Lab, Spyder, Pycharm , Visual Studio Code, Figma.

Database: PostgreSQL, MySQL, MongoDB.

Operating System: Linux, Windows, Mac OS.

Cloud Computing Platforms: IBM Watson Studio.

Key Specialization: Data Structures and algorithms, Object-Oriented Programming, Story Teller, Highly Interactive, Networks, Presentation, Leading, Public Speaking, Decision Making, Research, Statistical Data Analysis, Data Visualization.

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 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 - Apr 2023
- Used Melanoma Cells data set from kaggle & implemented preprocessing & image augmentation techniques to improve the evaluation metrics of the model in diagnosing, wield VGG16 model in improveing model's performance and efficiency.
- Made Exploratory Data Analysis on walmart, google play store and IMDB data sets & presented findings and predictions.

PROJECTS

Netflix Clone: An React Application Feb 2023
- Used Rest API to access the data from API provider **TMDB Movies** database and to display the content in the application.
- Leveraged use of tailwind CSS & 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 Sep 2023
- Evaluated different models of YOLOv5 Algorithm with SGD optimizer & YOLOv5n6 acquired better performance metrics.
- Implemented real time tree detection system in Quad-copter using **Raspberry PI 4 Model B** with **YOLOv5n6** model.

Covid-19 Pneumonia Diagnosis Using Ensemble and Transfer Learning Techniques May 2023
- Designed and implemented the ensemble techniques using deep neural network in diagnosing the Covid-19 Prediction.
- Engineered high-precision Covid Pneumonia recognition model, seamless prediction & deployed django app, leveraging transfer learning using **ConvNextXlarge, Inception Resnet V2, Densenet** models, achieving good results in prediction.

Indian Sign Language Hand Gesture Interpreter Using Machine Learning (SILANG) Mar 2023
- An **IEDC funded project**, Created the custom Indian Sign Language hand gestures with reference to **ISLRTC** dataset, Pre-processed the techniques like **Resizing, Rescaling** and augmented to obtain better and higher quantity of dataset.
- Deployed 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

AWARDS

Rank Holder March 2023
- Received college level merit award for getting the highest grade in the department of Computer Science and Engineering.