Praneeth Nemani

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EDUCATION

Dr. SPM International Institute of Information Technology - IIIT Naya Raipur   GPA: 8.31/10.0
Bachelor of Technology in Computer Science   *Aug. 2019 – Present*

FIITJEE Junior College   Percentage: 92.6
TSBIE - Class 12   *June. 2017 – May 2019*

PUBLICATIONS

SkinAid: Improved Skin Lesion Classification using Generative Adversarial Network Integrated with the Cloud and Internet-of-Things (IoT) Network, By: Prathistith Raj Medi, Praneeth Nemani, Vivek Reddy Pitta, Venkanna Udutalapally, Debanjan Das and Saraju P. Mohanty. Submitted to Review at IFIP International Internet of Things Conference, Amsterdam - 2021.

PROJECTS

1. **Multi-Camera Multiple Object Tracking and Person Re-Identification using CNNs**   2021
   - Performed Re-Identification with a pre-trained PyTorch model trained over 10 Image and 4 Video datasets
   - Performed multiple Object Tracking using state-of-the-art technique YOLO V3
   - Achieved an accuracy of 94% in re-identification in multi-camera multi-object tracking

2. **A Case of the Titanic - Survival Prediction using Machine Learning**   2021
   - Performed EDA on the given dataset and predicted the survival of different people by comparing 5 different in-built ML classifiers using the numerical features.
   - Improved the prediction accuracy of the model by using the techniques of NLP to pre-process and train non-numerical data.

3. **Fine-grained Sentiment Analysis and Classification using NLP Techniques**   June. 2020
   - Trained a dataset of more than 50,000 IMDB reviews involving Positive, Negative and Neutral classes and implemented a supervised sentiment classifier using both Logistic Regression and Naive Baeyes Methods and achieved an accuracy of 90%
   - Fine grain Sentiment analysis was also performed using SVMs in the Scikit-Learn Library and classification of reviews into Weakly/Strongly Positive/Negative classes took place
   - Custom Review's sentiment was predicted with an accuracy of 92%

4. **sAqua: An IoT based Smart Water Maintenance and Management System** | April. 2020
   - Developed an IoT based water management system focused on 3 parameters: Water Depth Detection, Purity Detection and Leakage Detection.
   - Designed a hardware system consisting of 3 different sensors and an Arduino Uno micro-controller integrated with Bluetooth and WiFi Modules
   - Deployed the above system in an Android Interface with the help of bluetooth module

TECHNICAL SKILLS

Languages: Python, Java, C, HTML/CSS
Frameworks: Scikit-learn, OpenCV, Keras, NLTK, Spacy, Flask, Tensorflow, PyTorch
Libraries: Pandas, NumPy, Matplotlib, Seaborn

POSITIONS OF RESPONSIBILITY

Club Head of The Carrom Geeks - Carroms Club of IIIT Naya Raipur   2021 - Present
Student Volunteer at National Service Schema - NSS IIIT Naya Raipur   2021 - Present

ACHIEVEMENTS

Top 3 Percentile achiever in JEE Mains in over 10 lakh applicants   2019
Recipient of the 100 Percent Scholarship honour in 10+2 Pre-University Programme- FIITJEE   2017
Annual Sports Cup Winner as a House Captain   2017