Anwesh Biswal

Machine Learning/Deep Learning

An Electronics graduate, who dropped into the field of Machine Learning and Deep Learning by the sheer craze of possibilities this domain holds. I have been a problem solver and would love to contribute my skills towards growth of and scalability of the company. I have been in different leadership positions in my university and would like to extend that to my career forward and be an asset to the organizations.

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EDUCATION

B. Tech in Electronics & Telecommunication Engineering Veer Surendra Sai University of Technology

08/2016 - 07/2020

Burla, Sambalpur

WORK EXPERIENCE

Computer Vision Intern Comofi Medtech

02/2021 - 08/2021

Bengaluru

Achievements/Tasks

- Worked on Generation of Digitally recreated Radiography (DRR), which are used in intra operative procedures.
- Optimization of object detection model for marker detection on body, also used multiprocessing method for better inference time.
- Worked on 3D Slicer which help in volume rendering and model creation, used above platform to create the simulation for the whole operation i.e putting object guided intervention of Screen.

Analyst Intern Oyo Rooms

05/2019 - 06/2019

Gurgoan

Achievements/Tasks

 Worked with the MM team and managed the corporate accounts and clients, also developed a model helped reduces CID (check-in-denial) and improve suggestions with the Tech Team. Learned the nuances of pricing algorithm with team.

Training Placement Coordinator VSSUT BURLA(2020-2021)

01/2019 - 03/2020

Sambalpur

Achievements/Tasks

 Worked towards having the best year in recent times as far as the number of placed students and bringing in companies that shot up the highest packages. Also tried to bring in internship culture pervasive to all four years. Collaborated with different organizations like C-Dac and Nvidia to have Industry collaborative projects.

Founding Member & Organiser

VSSUT INNOBUZZ - Eastern India Largest Inhouse Hackathon

2019 - 2020

Burla,Sambalpur

Achievements/Tasks

 Coordinated and engaged a group of 150 teams from across the country which culminated into 30 successful prototypes. Helped raise funding for the event by building symbiotic relation with different firms and industries and hosting their problems as problem statement.

SKILLS

Python Data An	alysis Machine Learning	
Computer Vision	Data Visualization OpenCV	
Tensorflow/Keras	Scikit-Learn Pandas Numpy	
Gradient Boosting Statistical Analysis		
Regression/Classification SQL 3D Slicer		

PERSONAL PROJECTS

Credit Card Fraud Detection

 Worked on a heavily imbalanced dataset. To tackle this we have used different Oversampling (SMOTE) and Undersampling methods to have a more balanced dataset. Anomaly detection and removing outliers was done using Interquartile Ranges and Box plots. Used Tsne method for dimensionality reduction. Trained on four classifiers to find out the method more effective in detection of fraudulent transaction.

EDA and Time Series Analysis of Covid-19

• I have done date wise analysis of Active ,Death and Recovered cases. Plotted different types of graph to analyze this. Have done country wise analysis(specific analysis for India) on different aspects like Recovery rate, Mortality Rate and Growth Factor. Tried to fit data for confirmed cases using Linear Regression ,Polynomial Regression and SVM model. Applied time series analysis and forecasted on confirmed cases using ARIMA(using AUTO-ARIMA), SARIMA, PROPHET MODEL and compared using RMSE as deciding factor.

U-net Lung Segmentation

 Medical segmentation is done training a CNN with U-net architecture to automatically detect boundaries within images. The training is done using 2 chest X-ray datasets:- Montgomery Country and Shenzhen Hospital data. Data augmentation is also carried to improve efficiency of available annotated samples. We present o/p as Predicted and Manually segmented and difference between segmentation. Finally we generate lungs only dataset by using RSNA dataset.

Sign Language Detection

 Used mediapipe package to categorically detect and draw keypoints on an image and send this as data as numpy array to train a LSTM model to predict sign language on live feed.

REFERENCES

Prof. Prasant Nanda, Head, Training and Placement Department VSSUT, Burla

placement@vssut.ac.in

Rakesh Sharma, CTO, Comofi Medtech

rakesh@comofimedtech.com

INTERESTS

Cycling

Music

Touring