Edera Venkata Naga Sai Bharadwaja
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Education

Indian Institute of Space Science and Technology **Sep. 2020 – May 2022**
M.Tech. in Machine Learning and Computing - CGPA-9.11 *Thiruvananthapuram, kerala*

GPCET , JNTU Ananthapuramu **July. 2014 – May 2018**
B.Tech. in Electrical and Electronics Engineering - 84.46% *Kurnool, A.P*

Experience

Defence Research and Development Organisation **October 2019 – September 2020**
Junior Reserch Fellow(JRF) *Hyderabad, Telangana*

- Performing and Gathering data from Visual Inspection,Physical Inspection,Burn Test,Chord-Level-Testing,QT,AT
- Preprocessed data for further analysis
- Explored various ML classification algorithms and Ensemble Techniques to predict the Acceptance of a PCB in Servo Controller.
- Developed various models to increase the recall , accuracy .Found the appropriate model using AUC , which is able to increase the recall by 6% over existing model

Internship

ML Research Intern **Sep 2021 – Ongoing**
SUBEX AI Labs : *Advanced Object Detection* *Bangalore*

Research/Academic Intern **June 2021 – Ongoing**
IIST : *Handling Class Imbalance* *Thiruvananthapuram, Kerala*

Full Stack Data Science Intern **Feb 2021 – Ongoing**
ineuron *Bangalore*

Projects

AutomatedML | *Python,Nosql:Cassandra, AWS , sklearn* **May 2021**

- CODE Demo video Link
- Developed a AutoML model which accepts any Dataset and will result the statitics of different Models and also recommend the best model and download link .
- Cassandra(Nosql) Database is used to load and retrieve the dataset
- Explored various ML Regression ,classification and Clustering Algorithms.

Mask/Without Mask Localization | *Python, TFOD, Faster RCNN , ResNet_v2* **May 2021**

- Gathered images from various sources on the internet.
- Labeled the faces by using labeling.exe
- Trained faster RCNN model for 50,000 epochs and got an accuracy of 88% for 500 Labelings of each class.
- The model is able to Localize with 13 fps.

Face Attributes Recognition | *Python,opencv* **March 2021**

- CODE
- Explored various Image classification algorithms in Computer vision.
- Trained different models for all the different facial attribute recognition.
- Accumulated all the models to together.

Sentiment Analysis on Amazon Fine Food Reviews Data Set | *Python,nltk,gensim models* **February 2021**

- CODE
- Cleaned and Deduplicated the data.
- Trained own Word2Vec model using gensim text corpus and Tf-idf Word2Vec.
- Explored various ML classification algorithms and Ensemble Techniques to predict the positive or negitive review.

Technical Skills

Languages: Python , SQL , c
DataBases: **SQL :** mySQL , **NoSQL :** mongoDB , cassandra
Technologies/Frameworks: OpenCV, TensorFlow, Keras, Pytorch , nltk , numpy , pandas , matplotlib , seaborn
API with python : Flask(beginner) , Django(beginner)
Cloud Deployment : AWS , GCP , Azure , Heroku