

Edera Venkata Naga Sai Bharadwaja

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Education

Indian Institute of Space Science and Technology

M.Tech. in Machine Learning and Computing - CGPA-9.11

Sep. 2020 – May 2022

Thiruvananthapuram, Kerala

GPCET , JNTU Ananthapuramu

B.Tech. in Electrical and Electronics Engineering - 84.46%

July. 2014 – May 2018

Kurnool, A.P

Relevant Coursework

- Optimization Techniques
- Linear Algebra
- Basic & Advanced ML
- Computer Vision
- Data Mining
- NLP
- Statistical Models
- Reinforcement Learning

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

Research/Academic Intern

June 2021 – Ongoing

Indian Institute of Space Science and Technology

Thiruvananthapuram, Kerala

Full Stack Data Science Intern

Feb 2021 – Ongoing

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Bangalore

Projects

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

May 2021

- 🌐 AWS Deployed Demo Link
- 📄 [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 negative 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