E V N SAI BHARADWAJA

Indian Institute of Space Science and Technology

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EXPERIENCE

Junior Research Fellow - Research Center Imarat
Defence Research and Development Organization
January 2020-August 2020 Hyderabad,India

INTERNSHIP

Academic Intern
Indian Institute of space Science and technology
June 2021 – Ongoing

Full Stack Data Science Intern
ineuron
Feb 2021 – Ongoing

EDUCATION

M.Tech. (Machine Learning and Computing) - 9.11 CGPA
Indian Institute of space Science and technology
sep 2020 – Currently Pursuing

B.Tech. (EEE) - 84.46 %
GPCET, JNTU Anantapur
July 2014 – july 2018

Higher Secondary - 94.8 %
Board of Intermediate Education AP
2012 – 2014

Secondary - 9 CGPA
Board of secondary School Education AP
2012

ACHIEVEMENTS

- **Gate 2019 score : 718**
- Semifinalist in Master Orator Championship by Toast Master International
- NATIONAL LEVEL IUCEE CHALLENGE 2017: Bagged 1st Prize by Presenting Home Automation using IOT in a working model Expo at IUCEE 2017, Hyderabad.

RESEARCH INTERESTS

- Computer Vision, Image Analysis and video processing
- Data Mining
- Deep learning, Machine learning
- Natural language Processing
- Reinforcement learning
- Artificial Intelligence and Robotics

TECHNICAL SKILLS

- **Languages :** Python , SQL , c
- Data Structures and Algorithms
- **DataBases : SQL :** mySQL , **NoSQL :** mongoDB , cassandra
- **API with python :** Flask(beginner) , Django(beginner)
- **Cloud Deployment :** AWS , GCP , Azure , Heroku
- **Framework :** OpenCV, TensorFlow, Keras, Pytorch , nltk , numpy , pandas , matplotlib , seaborn
- **Boards :** Arduino , AT89s52 microcontroller , Ibhubs HDK module, ESP8266 WiFi module, DHT 11, HC05 Module, Lm35

PROJECTS

Mask/Without Mask Localization

The Main objective of this project is to Localize whether a person wearing a mask or not, in an image or Video frame by using Faster RCNN object detection

- From Tensorflow Object Detection (TFOD) , I made use of faster_rcnn_inception_v2_coco_2018_01_28
- 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 for a video

Face Attributes Recognition

The Main objective of this project is to predict different types of Facial Attributes such as
Eyes: Open/Closed , **Smiling:** Yes/No , **Glasses:** Wearing/Not Wearing, **Gender**

Sentiment Analysis on Amazon Fine Food Reviews Data Set

- The Main objective of this Model (Supervised Learning) is to predict Reviews Positive (Rating > 3) or Negative (Rating < 3)
- EDA: Data Cleaning, Deduplication
- Text Preprocessing: Stemming and Lemmatization. Trained own Word2Vec model using gensim text corpus and Tf-idf Word2Vec.
- Classification: Classified Reviews based on Different ML classification algorithms

Deep Deterministic Policy Gradient(DDPG) method

- DDPG for continuous state and action spaces in openai gym for pendulum-v0 environment