MEREDDY SUSHMANTH REDDY

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Profile

- Pursuing majors in Electronics and Communication engineering, intersted in Deep Learning,computer vision and problem solving.
- Helping to build deep-learning based tools that help accelerate research in data driven developmental biology DEVOLEARN
- Working on different DL models and hosting them in huggingface.

Education

Electronics and Communication Engineering, *Amrita Vishwa Vidyapeetham* 2020 – 2024
7.5 cgpa Amritapuri Campus, INDIA

INTERMEDIATE, *FIITJEE* 2017 – 2019
- 797 in plus and plus 2

Hyderabad, INDIA

Professional Experience

OPEN SOURCE CONTRIBUTOR present
REMOTE
- Opensource contributor to devolearn .
- Maintainer of devolearn and devograph
- Created three web apps ,which are hosted in hugging face spaces .
- Complete maintainer of Devoworm organzation in HuggingFace

Skills

PYTORCH	C++
C	PYTHON
DART	FLUTTER
TENSORFLOW	HUGGINGFACE
MATLAB	NUMPY
OPENCV	git/GITHUB

Languages

- English
- Hindi
- telugu

Projects

1. Nucleus Segmentor Huggingface
- A Deep learning model hosted in HuggingFace mainly used for segmenting raw nucleus data of C Elegans.
- Model was completely trained on cell tracking challenge dataset .
- After that file was converted into ONXX format and hosted as part DEVOWORM Group
- check out here link

2. Membrane Segmentor HuggingFace
- A Deep learning model hosted in HuggingFace mainly used for segmenting raw membrane data of C Elegans.
- Helps in visualization of embryogenesis of c Elegans
- Model was completely trained on cell tracking challenge dataset .
- After that file was converted into ONXX format and hosted as part DEVOWORM Group
- check out link

3. Lineage Population HuggingFace
- A Deep learning model hosted in HuggingFace mainly used for tracking the cells on time series data of C Elegans.
- Helps in visualization of embryogenesis of c Elegans
- Model was completely trained on cell tracking challenge dataset .
- After that file was converted into ONXX format and hosted as part DEVOWORM Group
- check out link

4 .RESNET-34 CLASSIFICATION
- RESNET 34 Implementation from scratch .
- I have read resent 34 research paper and implemented whole paper.
- The model is build using PyTorch and is trained on the Birds Classification Dataset from Kaggle.
- And model is hosted in hugging face spaces

5. Hand-Written-recognition
- Handwritten Text Recognition (HTR) system implemented with TensorFlow (TF) and trained on the IAM off-line HTR dataset.
- Model takes images of single words or text lines (multiple words) as input and outputs the recognized text.
- 3/4 of the words from the validation-set are correctly recognized, and the character error rate is around 10%.

6 .DOG BREED
- Built an dog breed model, predicts about 120 dog breeds with an accuracy of 76.9 and loss of 0.89

7. Galaxy Morphology Prediction
- built a regression model ,which is used to predict shapes of galaxy
- And dataset is used from kaggle ,the model has been hosted in huggingface spaces

8. problem solving
- Intersted in problem solving .
- Pupil on codeforces website

Awards

NMMS (national merit scholarship), *govt of India*

Organizations

Amfoss, *member* 2020 – 2022
- Member of Amfoss student organzation , where a group of students help each other in part computer science knowledge .
- Participate in competitions related to Computer scinece

Ayudh, *member*
- Participated in community drives of Ayudy tree plantation .
- Participated in food distribution work of Ayudy in allepy .
- Participated in beach cleaning drive at adekal beach.

Courses

DEEP LEARNING, *YOUTUBE*
- Watched complete krishnaik course on machine learning and made blog out of it.
- Blog link

git/github, *YouTube*
- Learned complete git and GitHub commands from YouTube.
- blog link