Rigved Shirvalkar

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Education

2020 – 2024 **Bachelors of Technology in Electronics & Computer Engineering**
Amrita School of Engineering

Projects

Pneumonia Detection from X Ray images
Detection of pneumonia from X Ray images using Pytorch
- Architectures used are ResNet9, ResNet18 and other custom CNN models
- Hyperparameters were selected using optuna and evaluated using K fold cross-validation for the final ResNet model.
- Implemented ensembling by training 5 models with different folds of training data and using their average output as the final prediction

FaceRec - Custom Face Recognition App using Kivy
Custom face recognition app trained using Siamese Neural Network
- Trained locally using custom face dataset for positives and LFW dataset for negatives
- App made using Kivy for User Interface

Carvana Image masking
Image segmentation of cars using UNET
- Implemented using Pytorch
- Deployed using Heroku

NFS - Neural Net from Scratch
- Neural Network Created from Scratch
- Using only Python and Numpy

Professional Experience

01/2021 – 03/2021 **Internship program in Machine Learning**
FoxTradingSolutions
- Trained models to fit datasets with the highest accuracy possible
- Solved some case studies on machine learning problems

03/2021 – 07/2021 **Web Developer**
Traboda
- Added features and solved issues in both backend and frontend
- Used CSS, ReactJS and Django

Organisations

05/2022 – present **AI@Amrita**
Team Member

12/2020 – 05/2021 **amFOSS**
Team Member

Skills

Deep Learning
Machine Learning
PyTorch
Python
Pandas
Numpy
Jupyter
Git
Web Development
ReactJS
Django

Courses

Neural Networks and Deep Learning
an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Structuring Machine Learning Projects
an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
an online non-credit course authorized by DeepLearning.AI and offered through Coursera

Introduction to Deep Learning Using PyTorch
Udacity

Awards

IMO Gold medal
Class topper in 10th

NSO Gold medal
Class topper in 10th

NCO Gold and Silver medal
Class topper in 10th and silver in 9th

Achievements

Got selected for the prestigious 6th Summer School on AI offered by IIITH
The intended audience for the Summer School are those currently enrolled in Masters or PhD programs in the fields of AI, computer vision, and other related areas.
The program is also open to undergrads who are very enthusiastic about the field.