Rigved Shirvalkar

B.Tech Undergrad

Deep Learning and Computer vision enthusiast with ability to work hard and remain focused in work. Love to try new things along with innovating and implementing new ideas.

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Pune, India

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github.com/rigvedrs

SKILLS

Machine Learning

Deep Learning

Web Development

Python | Pytorch

Pandas | Numpy

Jupyter | ReactJS

Django

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

Marathi
Full Professional Proficiency

INTERESTS

Deep Learning

Football | Dance

Reading

EDUCATION

Bachelors of Technology in Electronics & Computer Engineering
Amrita School of Engineering
07/2020 - 05/2024

PERSONAL 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 Detection App using Kivy
- **Face detection** 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**

WORK EXPERIENCE

Web Developer
Traboda
03/2021 - 07/2021

Internship program in Machine Learning
FoxTradingSolutions

ORGANIZATIONS

amFOSS (12/2020 - 05/2021)
Team Member

AI@Amrita (05/2022 - Present)
Team Member

CERTIFICATES

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
online non-credit course offered by Udacity