Shreyas Vedpathak

04 Jan 2001 | shreyasvedpathak@gmail.com | 9881898291 | 411002 Pune, India

LinkedIn ID: shreyasvedpathak | Github ID: shreyasvedpathak | Website: shreyasvedpathak.github.io

PROFILE

1+ years of expertise building and implementing deep learning algorithms using TensorFlow and PyTorch. Excited about increasing studies into artificial intelligence. I have solid technical expertise as well as an academic background in Engineering, Statistics, and Machine Learning.

EDUCATION

2018 – present
Pune, India

Bachelor of Technology
MIT World Peace University
Current CGPA: 9.43

SKILLS

C • C++ • Python • Tensorflow • PyTorch • Scikit Learn • MySQL • MongoDB • Tableau

PROFESSIONAL EXPERIENCE

Nov 2021 – present
Ahmedabad, India

Computer Vision Intern
Upjao Agrotech
Contributed to the development of a scalable API powered by the GCP engine that does inference (detection, segmentation, and classification) on images containing grains and outputs indexes that are used to quantify grain quality.

Aug 2021 – present
California, USA

Mentor
DeepLearning.AI
Helped candidates enrolled in specific Coursera courses by solving their doubts, sharing learning material, and career advices.

Mar 2021 – Jun 2021
Pune, India

Data Analyst Intern
Analytics Domain
Created a web application-based analysis tool that would leverage data from public APIs. Curated course content for Machine Learning and Deep Learning topics at the beginner and intermediate levels. With the produced courses and a variety of user-side features, developed a Learning Management System.

PUBLICATIONS

Jun 2021

Genomics, High Performance Computing and Machine Learning
UIJRT (United International Journal for Research & Technology)
This paper aims to explore in a very uncomplicated manner, what exactly is genomics, where does high performance computing and machine learning come into picture, current applications and discuss potential future scope.

Nov 2020

PCOcare PCOS Detection and Prediction using Machine Learning Algorithms
Bioscience Biotechnology Research Communications
Using 5 Machine Learning Algorithms, this research attempts to provide a system that can aid in the early diagnosis and prediction of PCOS therapy based on an optimal and minimal set of parameters.

AWARDS

Nov 2020 **Best Paper Award**
International Conference on Intelligent Systems, Data Science and Computing
Best Research Paper Award in Machine Learning Track.

PROJECTS

Oct 2020 – Nov 2020 **PCOcare: PCOS Detection & Prediction using ML**
Research Project
A system that can aid in the early identification and prediction of PCOS treatment is offered. There were several Machine Learning classifiers used. For feature engineering, the CHI square strategy is employed.

May 2021 – present **Segmentation of Fire and Smoke in Nano-Satellite Imagery using Mask R-CNN and Res-UNet**
Research Project
Image Segmentation Algorithms such as Mask Region-Based Convolutional Neural Network (Mask R-CNN), UNet, and Deep Residual U-NET successfully separated natural objects such as clouds, snow, and rivers against smoke caused by a forest fire.

Jun 2021 – Jul 2021 **Loan Management System - Flask API**
Private Project
Simple loan management API made with FLASK as the backend and SQLite as the database. Token-based authentication, with Flask Blueprints for future scaling.

Jul 2021 – Jul 2021 **Hardhat Detection: Dynamically Colored Bounding Boxes**
Private Project
Detecting hardhats in an image/video/live stream and offering security approval based on the color of the hardhat.

COURSES

Machine Learning by Andrew Ng
Stanford University

TensorFlow: Advanced Techniques
deeplearning.ai

Generative Adversarial Networks Specialization
deeplearning.ai

Generative Deep Learning with TensorFlow
deeplearning.ai

REFERENCES

Dr. Kalpana Thakre, *Professor*, Sinhgad College of Engineering, Pune
kalpana_sunil@yahoo.com, 9922411355

Shilpa Sonawani, *Associate Professor*, MIT World Peace University, Pune
shilpa.sonawani@mitwpu.edu.in, 8698955002