Shreyas Vedpathak

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PROFILE

1+ years of expertise building and implementing deep learning algorithms using TensorFlow and PyTorch is required. Excited about increasing studies into artificial intelligence. I have the 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

Aug 2021 – present
California, USA

Mentor
DeepLearning.AI

Mar 2021 – Jun 2021
Pune, India

Data Analyst Intern
Analytics Domain

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

May 2021 – present
Segmentation of Fire and Smoke in Nano-Satellite Imagery using Mask R-CNN and Res-UNet
Research Project
Image Segmentation Algorithm: Mask Region-Based Convolutional Neural Network (Mask R-CNN), UNet, and Deep Residual U-NET. Successfully distinguished natural entities such as clouds, snow, rivers, and smoke created by a fire.

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.

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.

Nov 2020 – Nov 2020
Dogs vs Cats - Using Keras Functional API
Keras Functional API was used to create a simple Tensorflow-based Convolutional Neural Network model.

Oct 2020 – Nov 2020
PCOcare: PCOS Detection & Prediction using ML
Research Project
A system is proposed that can aid in the early diagnosis and prediction of PCOS treatment. Random Forest, SVM, Logistic Regression, Gaussian Nave Bayes, and K Neighbours are five different machine learning classifiers. The CHI square approach is used for feature engineering.

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