

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 <i>MIT World Peace University</i> ✍ Current CGPA: 9.43
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SKILLS

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

PROFESSIONAL EXPERIENCE

Aug 2021 – present California, USA	Mentor <i>DeepLearning.AI</i> ✍
Mar 2021 – Jun 2021 Pune, India	Data Analyst Intern <i>Analytics Domain</i> ✍

PUBLICATIONS

Jun 2021	Genomics, High Performance Computing and Machine Learning ✍ <i>UIJRT (United International Journal for Research & Technology)</i> 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 ✍ <i>Bioscience Biotechnology Research Communications</i> 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 ✍ <i>International Conference on Intelligent Systems, Data Science and Computing</i> Best Research Paper Award in Machine Learning Track.
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PROJECTS

May 2021 – present	Segmentation of Fire and Smoke in Nano-Satellite Imagery using Mask R-CNN and Res-UNet <i>Research Project</i> 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.
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Jul 2021 – Jul 2021	Hardhat Detection: Dynamically Colored Bounding Boxes <i>Private Project</i> 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 <i>Private Project</i> 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 ↗ <i>Research Project</i> A system is proposed that can aid in the early diagnosis and prediction of PCOS treatment. Random Forest, SVM, Logistic Regression, Gaussian Naive Bayes, and K Neighbours are five different machine learning classifiers. The CHI square approach is used for feature engineering.

ORGANISATIONS

Pune, India	Google Developers Group <i>Member</i>
Pune, India	Society of Biological Engineers <i>Technical Team Member</i>

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

INTERESTS

- Watching Movies/Series
- Image Editing
- Video Editing

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