Shreyas Vedpathak

📅 04 Jan 2001   ✉ shreyasvedpathak@gmail.com   📞 9881898291   📍 Pune, India

in LinkedIn ID: shreyasvedpathak   � Github ID: shreyasvedpathak   ⚐ Website: shreyasvedpathak.github.io

≋ Stackoverflow ID: shreyasvedpathak

EDUCATION

Jul 2018 – Jun 2022 Pune, India	**MIT World Peace University,** *Bachelor of Technology* ⊡ Branch: Computer Science and Technology CGPA: 9.52
Jul 2016 – May 2018 Pune, India	**Sir Parashurambhau College,** *HSC* Branch: Science Percentage: 81%

SKILLS

Python • C++ • Docker • AWS • MySQL • MongoDB • Scikit Learn • OpenCV • PyTorch

Tensorflow • HTML • CSS • JavaScript • jQuery • Flask • Node.js

PROFESSIONAL EXPERIENCE

Nov 2021 – present Ahmedabad, India	**Computer Vision Intern,** *Upjao Agrotech* ⊡ • Worked on novel problems related to the Agro-industry with Deep Learning as well as traditional computer vision methods with OpenCV. • Created a modular Python package that would generate a numerical report based on the spatial properties of images. Improved server response time by 45 percent. • Contributed to the research team by brainstorming and authoring 2 patents. • Restructured the server architect to make it scalable and flexible with Docker and Kubernetes and faster to develop.
Aug 2021 – present Palo Alto, USA	**Mentor,** *DeepLearning.AI* ⊡ • Helped candidates enrolled in specific Coursera courses by solving their doubts, sharing learning material, and career advice. • Test new lab exercises before they are released to enrolled students.
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 and web scraping. • Curated 2 courses for Machine Learning and Deep Learning topics at the beginner and intermediate levels. • With the produced courses and a variety of user-side UI features, developed a web app-based Learning Management System.

PUBLICATIONS

Jun 2021	**Genomics, High Performance Computing and Machine Learning,** *UIJRT (United International Journal for Research & Technology)* ⊡ The survey paper seeks to investigate, in a straightforward manner, what genomics is, where high-performance computing and machine learning come into play, current applications, and potential future scope.
Nov 2020	**PCOcare PCOS Detection and Prediction using Machine Learning Algorithms,** *Bioscience Biotechnology Research Communications* ⊡ This study employs 5 Machine Learning Algorithms to develop a system that can aid in the early diagnosis and prediction of PCOS therapy based on an optimal and minimal set of parameters. Achieved 90% accuracy on test data.

PATENTS

Jan 2022 Ahmedabad, India	**A method and system for Encoding and Decoding data on objects by using geometrical shaped markers.**, *Patent Pending* A strong alternative to QR codes, barcodes, and RFIDs for simultaneously tagging, tracking, and recognizing multiple objects using computer vision techniques.

AWARDS

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

PROJECTS

Nov 2021 – present	**AutiScan,** *Final Year Project* ⧉ • Collect data on autism-affected Indian children and determine whether or not they have ASD. • The candidate's reaction to a reference video is recorded, and their facial landmarks are utilized to classify them using a CNN + RNN deep learning model. • Increased accuracy from 60% to 90% using finetuning.
May 2021 – Sep 2021	**Segmentation of Fire and Smoke in Nano-Satellite Imagery using Mask R-CNN and Res-UNet,** *Research Project* • Separated natural objects such as clouds, snow, and rivers against smoke caused by a forest fire using Image Segmentation. • Achieved 0.925 and 0.45 IoU scores using Instance Segmentation and Semantic Segmentation respectively.
Jun 2021 – Jul 2021	**Loan Management System - Flask API,** *Private Project* • Simple loan management REST API made with Flask and SQLite. • Token-based authentication. • Flask Blueprints for future scaling.
Oct 2020 – Nov 2020	**PCOcare: PCOS Detection & Prediction using ML,** *Research Project* ⧉ • Utilised Exploratory Data Analysis to build a hypothesis. • Feature Engineering, Model building, and Ensembling of models were used to test the hypothesis.

COURSES

TensorFlow: Advanced Techniques, *deeplearning.ai*

The Complete 2020 Web Development Bootcamp by Angela Yu, *Udemy*

Generative Deep Learning with TensorFlow, *deeplearning.ai*

Modern Application Development with Python on AWS Specialization, *Coursera*

Docker and Kubernetes: The Complete Guide, *Udemy*