


Shreyas Vedpathak

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EDUCATION


Jul 2018 – Jun 2022
India
MIT World Peace University 
Bachelor of Technology
Major: Computer Science and Technology
CGPA: 9.52

Jul 2016 – May 2018
India
Sir Parashurambhau College
HSC
Branch: Science
Percentage: 81%


SKILLS

Python • C++ • Docker • SQL • HTML • CSS • MongoDB • Scikit Learn • OpenCV • PyTorch
AWS (Amazon Web Services) • Tensorflow • JavaScript • Flask • Problem Solving • Communication


PROFESSIONAL EXPERIENCE

Nov 2021 – present
India
Computer Vision Intern
Upjao Agrotech 

- Created a Python package that would generate a numerical report and 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, flexible, and faster to develop with Docker and Kubernetes.

Aug 2021 – present
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
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)

Nov 2020
PCOcare PCOS Detection and Prediction using Machine Learning Algorithms 
Bioscience Biotechnology Research Communications

PATENTS

Jan 2022
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

- 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.

CERTIFICATES

- TensorFlow: Advanced Techniques 
- Docker and Kubernetes: The Complete Guide
- Modern Application Development with Python on AWS