

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 accelerated development with Docker and Kubernetes.

Aug 2021 – present
USA **Mentor**
DeepLearning.AI ✕

- Mentored 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. <i>Patent Pending</i> A strong alternative to QR codes, barcodes, and RFIDs for simultaneously tagging, tracking, and recognizing multiple objects using computer vision techniques.
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
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

Nov 2021 – present	AutiScan  <i>Final Year Project</i> <ul style="list-style-type: none">• 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 <i>Research Project</i> <ul style="list-style-type: none">• 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 <i>Private Project</i> <ul style="list-style-type: none">• 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  <i>Research Project</i> <ul style="list-style-type: none">• 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