Shreyas Vedpathak

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PROFILE

A software engineering graduate with 1.5+ years of experience in software development in computer vision, backend development, cloud, and research & development. I seek to utilise my broad educational background and excellent analytical, technical, and programming skills to thrive as an entry-level software engineer.

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 • Perl • Bash • Shell

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.**
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