

# Shreyas Vedpathak

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## PROFILE

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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

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**MIT World Peace University** 📄

Jul 2018 – Jun 2022 | India

*Bachelor of Technology*

Major: Computer Science

CGPA: 9.52

**Sir Parashurambhau College**

Jul 2016 – May 2018 | India

*HSC*

Branch: Science

Percentage: 81%

## SKILLS

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Python • C++ • Docker • SQL • HTML • CSS • MongoDB • Scikit Learn • OpenCV • PyTorch  
AWS (Amazon Web Services) • Tensorflow • JavaScript • Flask • Perl • Bash • Shell

## PROFESSIONAL EXPERIENCE

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**Role: Software Development Engineer Intern**

Nov 2021 – present | India

*Company: 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.

**Role: Mentor**

Aug 2021 – present | USA

*Company: 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.

**Role: Data Analyst Intern**

Mar 2021 – Jun 2021 | India

*Company: 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

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**Genomics, High Performance Computing and Machine Learning** 📄

Jun 2021

*UIJRT (United International Journal for Research & Technology)*

## PATENTS

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### A method and system for Encoding and Decoding data on objects by using geometrical shaped markers.

Jan 2022 | India

*Patent Pending*

A strong alternative to QR codes, barcodes, and RFIDs for simultaneously tagging, tracking, and recognizing multiple objects using computer vision techniques.

## AWARDS

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### 1st Runner Up - NTT DATA AI Hackathon

29 Jul 2022

*NTT DATA*

Ideate and build a working AI product to solve a healthcare-related problem. Won prize worth 1.25 Lakh.

### Best Paper Award

Nov 2020

*International Conference on Intelligent Systems, Data Science and Computing*

Best Research Paper Award in Machine Learning Track.

## PROJECTS

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### AutoScan

Nov 2021 – present

*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.

### Segmentation of Fire and Smoke in Nano-Satellite Imagery using Mask R-CNN and Res-UNet

May 2021 – Sep 2021

*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.

### Loan Management System - Flask API

Jun 2021 – Jul 2021

*Private Project*

- Simple loan management REST API made with Flask and SQLite.
- Token-based authentication.
- Flask Blueprints for future scaling.

### PCOcare: PCOS Detection & Prediction using ML


Oct 2020 – Nov 2020

*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

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