Shreyas Vedpathak

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PROFESSIONAL EXPERIENCE

Software Development Intern, *Upjao Agrotech* Nov 2021 – present
Ahmedabad, India

- Contributed to the R&D team by doing the following: data cleaning, preprocessing, model building (training, testing, and deploying) using ML, DL and classical computer vision.
- Created a Python package that 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.

Mentor, *DeepLearning.AI* Aug 2021 – present
Palo Alto, USA

- Helped candidates enrolled in specific Coursera courses by solving their doubts, sharing learning material, and career advice.

Data Analyst Intern, *Analytics Domain* Mar 2021 – Jun 2021
Pune, India

- 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.

PROJECTS

AutiScan, *Final Year Project* Nov 2021 – Jun 2022

- 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.

Loan Management System - Flask API, *Hackathon Project* Jun 2021 – Jul 2021

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

PCOcare: PCOS Detection & Prediction using Machine Learning, *Research Project* Oct 2020 – Nov 2020

- Utilised Exploratory Data Analysis to build a hypothesis.
- Feature Engineering, Model building, and Ensembling of models were used to test the hypothesis.

SKILLS

Python • C++ • Docker • SQL • HTML • CSS • MongoDB • Scikit Learn • OpenCV • PyTorch

AWS (Amazon Web Services) • Tensorflow • JavaScript • Flask • Problem Solving • Communication

EDUCATION

MIT World Peace University, *Bachelor of Technology in Computer Science* Jul 2018 – Jun 2022
CGPA: 9.52 Pune, India

PATENTS

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

AWARDS

First Runner Up - NTT DATA AI Healthcare Hackathon (Total teams - 7569), 29 Jul 2022
NTT DATA Services

Best Paper Award out of 35 papers presented, 28 Nov 2020
International Conference on Intelligent Systems, Data Science and Computing