

Prateek Pal

Incoming Research Intern at IIT Delhi, Machine Learning Engineer Intern at Viga

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WORK EXPERIENCE

Deep Learning Engineer Intern Pibit.ai

03/2023 - Present Bangalore, India
Intelligent document processing augments human understanding of unstructured insurance data through deep learning technology Schedule a Demo

- Conducted 4 POCs for different clients such as ICICI, Hero, etc.
- Compared Azure and AWS OCR services on our dataset over 6 different benchmarks and replaced AWS textract with Azure OCR for cost saving.
- Compared different Intelligent Document Analysis model performances on our dataset and fine-tuned some.
- Prepared and preprocessed large amounts of data close to 80 thousand documents to be used to finetuned models.

Machine Learning Engineer Intern Viga Entertainment Technologies

03/2022 - 02/2023
Work on cutting-edge entertainment technology solutions using cloud computing, machine learning and real-time rendering on 5 plus projects.

- Currently working on API to draw textures on the 3-dimensional meshes structured using photonic radar sensors.
- Was involved in making a tool to automatically label the cloud point data using 4 plus libraries such as SOMA, MOSHPP, etc.
- A tool to convert real human faces into their 3d avatar which can then be accustomed for adding emotions and actions which can be then integrated in animated movies or games.
- Enhanced the output video quality for the audio video syncing tool called Wav2Lip which can be inured for 4 different applications.

Artificial Intelligence Intern Infiheal Tech.

09/2022 - 11/2022
We bring you 24/7 mental healthcare support tailored to your personality. It is anonymous, research-based, and holistic.

- Made AI-Powered Chatbots that can identify the 20+ types of mental illness a person is going through in normal conversation.
- Worked with 2 other team members to test different models and problems related to multiclass and multilabel.
- Developed ways to automatically label the datasets to transform our data collection process to a easier way.
- Used 5+ different web scrapping APIs and integrated them to collect social media datasets from Instagram, Twitter, Facebook, quora, Reddit, etc.

EDUCATION

Micromasters in Statistics and Data Science Massachusetts institute of technology

05/2022 - Present

BTech in Electronics and Communication Institute of Engineering and Technology

2020 - 2024

Nanodegree - AI Programming with Python Udacity

07/2022 - 11/2022

SKILLS

Deep Learning

Data Science

SQL

Machine Learning

Computer Vision

NLP

Mathematics

Statistical Modeling

Python

Excel

Data Visualization

Big Data

Django

Database Management

Numpy

Pandas

Pytorch

Tensorflow

PERSONAL PROJECTS

Automated Examination System(SIH 2022 Winner)

- An automated system that reduces any errors students and invigilators may commit during the examination by 60 percent.
- It greatly focuses on data security and secure user login using 2 factor authentication.
- This system has an algorithm that never distributes the same center to more than 60 percent resemblance, making it robust to any type of anomalies.
- Project Link - <https://github.com/PrateekPal641/SIH-deploy>.

Ecommerce-Metaverse(Grid 4.0 Pre-Finalists)

- This metaverse aims to ease shopping experience and also transform it close to reality where you can assemble friends and communicate like real world.
- It gives you 10+ functionalities like seeing apparel in 3D, virtual try-on of clothes on your character, and directly buying clothes that look good on your character.
- Project Link- <https://drive.google.com/drive/folders/1yjt0dVqjE8DCWpDMhle-ETrZF8mieZf?usp=sharing>.

Room Plan API

- This project is an extension of apple's room plan API where a person can form a 3 dimensional mesh using the apple iPad lidar scanner.
- This projects aims into putting textures onto the constructed mesh.
- A user just need to take a video shot using an iPad and the will be able to make a textured mesh with this project.

ACHIEVEMENTS

SIH 2022 National Winner (04/2022 - 08/2022)

Competed against more than 1 lakh participants to reach the grand finales and then became the national winners.

Unesco India Africa Hackathon Finalist(2022)

Selected among only 220 Students from india competing with african students.

AWS AI/ML Scholarship (07/2022 - Present)

Among top 1000 Candidates who got AWS AI/ML Scholarship.

Grid 4.0 Pre-Finalists (07/2022 - Present)

Pre-Finalist at Grid 4.0 where I built a e-commerce metaverse in just 15 days and submitted my solution.

Luxembourg India Hackathon Finalist (06/2023 - 11/2023)

A 36-hour hackathon where the top 103 students were selected from india.

POSITION OF RESPONSIBILITIES

Google Developers Student Club-ML/AI Lead

Robotics Club IET Lucknow - Mentor for AI/ML

Parmarth social club of IET Lucknow- Graphic Designer

Event Management Committee - ISSACC