

Vaishnav Potlapalli

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🐙 github.com/vaishnav9v

Education

New York University

Masters of Science in Computing, Entrepreneurship and Innovation

Sep. 2023 – Dec 2024

New York City, NY

Mahindra Ecole Centrale

Bachelor in Technology in Computer Science

Aug. 2016 – May 2020

Hyderabad, Telangana

Relevant Coursework

- Deep Learning
- Machine Learning
- Computer Networks
- Analysis of Algorithms
- Computer Architecture
- Database Management
- Data Structures
- Distributed Systems

Experience

MBZUAI

Research Assistant (Advisor: Dr. Salman Khan)

July 2022 – July 2023

Abu Dhabi, UAE

- Studied and implemented popular continual learning methods for video action recognition.
- Developed a new novel unified image restoration framework to restore images corrupted with multiple degradations using a single model
- Achieved State of the Art performance on popular image restoration benchmarks

Dhan AI

Machine learning Engineer

April 2020 – April 2022

Hyderabad, India

- Developed and fine-tuned Natural Language Understanding models for tasks such as Intent and Entity recognition.
- Utilized an ensemble of BERT-based Classifiers to enhance the NER engine performance, resulting in a 12% improvement in internal benchmarks.
- Created and Managed API endpoints for the developed ML models using Django and TensorRT
- Maintained and optimized the software codebase to ensure efficient and reliable performance.
- Managed cloud infrastructure in Azure, ensuring scalability and availability of deployed ML services.
- Designed and developed ETL pipelines to efficiently collect and process data for the analysis of customer responses using MSSQL SSIS and Redis

Projects

ROBOMUSE- Mobile robot platform | ROS, OpenCV, PyTorch, C++, Python

September 2019 – January 2020

- Developed the visual module of a mobile robot platform with autonomous path planning and navigation. The visual module alongside LIDARs was used for SLAM.
- Built a stereo camera from scratch using two monocular cameras, and implemented stereo calibration and stereo matching to capture RGB-Depth Images
- Implemented YOLO and SSD models for object recognition, and adapted them to work on RGBD Images

PhysioLive: Virtual Assistant for Physio Therapy | Django, Tensorflow, C++, Python

May 2018 – May 2020

- Developed an application that uses human pose estimation and anomaly detection to identify when a patient is practicing the wrong postures during physiotherapy exercises
- Utilized Openpose model to identify human poses during physio therapy exercises
- Developed the backend of the application using Django.
- The project won the first place at MedTech Hackathon organised by Novartis.

Publications

PromptIR: Prompting for All-in-One Blind Image Restoration

NeurIPS 2023

Vaishnav Potlapalli, Syed Waqas Zamir, Salman Khan, Fahad Shahbaz Khan

Sketch3T: Test-Time Training for Zero-Shot SBIR

CVPR 2022

Aneeshan Sain, Ayan Kumar Bhunia, Vaishnav Potlapalli, Pinaki Nath Chowdhury, Tao Xiang, Yi-Zhe Song

MediTables IIIT

GREC 2021

Akshay Praveen Deshpande, Vaishnav Potlapalli, Ravi Kiran Sarvadevabhatla

Technical Skills

Languages: Python, Java, C/C++, HTML/CSS, JavaScript, SQL

Developer Tools: Git/Github, VS Code, Azure Cloud

Technologies/Frameworks: Pytorch, Tensorflow, Transformers, TensorRT, CUDA, OpenCV, Django, Docker