Vaasu Bisht
// Artificial Inteligence
Core Team Member

Vaasu Bisht

DATA SCIENTIST AT
SUPRA ONCOLOGY

ABOUT

First year UG student at Vellor Institute of Technology located in India and I am pursuing BTech + MTech in Artificial Intelligence. Well acquainted with Machine Learning algorithms and now learning Deep Learning. Looking for research opportunity.

CONTACT

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EDUCATION

● **Vellore Institute of Technology Bhopal Campus**

2021 - Present
5 year MTech Integrated AI

- CGPA - 8.83

SKILLS AND ABILITIES

- Python
- Machine Learning
- Deep Learning
- Transformer
- Trax
- Convolutional Neural Network
- Computer Vision
- Natural Language Processing
- Web Scraping
- C++
- Data Structures and Algorithms

WORK EXPERIENCE

● **Supra Oncology**

May 2022 - Present

Data Scientist

Working as a full-time Data Scientist in Supra Oncology on various NLP and CV pipelines. Our mission in Supra Oncology is to provide products and services that can lessen the burden for individuals with cancer and help them to manage their lives with confidence and hope.

Skills- NLP, Computer Vision, Python, Web Scraping, Data Analysis, Machine Learning, Problem Solving.

● **VecTech(with Omneda)**

March 2022 - June 2022

Junior Machine Learning Engineer

Working with 50 engineers worldwide to develop a species Identification model for Mosquitoes Using AI for Vectech, a technology social enterprise working to empower public health organizations in the global fight against mosquito-borne disease. For better identification, initial research found out that instance segmentation of mosquitoes' anatomy will help in increasing accuracy. So we are trying to build a model to extract the anatomy of mosquitoes from images. Project

Skills- Python, Computer Vision, Tensorflow, Pytorch, Leadership, Problem Solving, Transfer Learning, Analytical Skills.

● **Feynn Labs**

January 2022 - March 2022

Machine Learning Intern

- Project 1- Helping small/local businesses in increasing their sales and customer retention by using association rule mining (Market Basket Analysis) and performing data analysis to understand purchasing patterns of their customers, which will help in inventory management.
- Project 2- I was project lead and did the segmentation of AI job opportunities in India using unsupervised machine learning algorithms. Web scraping and Exploratory Data Analysis were also performed by me and my team.

Skills- Python, Machine Learning, Hierarchical Clustering, Web Scraping, K-Means Clustering, Leadership, Apriori Algorithm

PROJECTS

◉ **FinTech Project - Algorithm Trading with Python and Artificial Intelligence [July 2022 - Present]**
with Vellore Institute of Technolgy
Working with and leading a team of five from VIT, Bhopal, and making a financial technology project. Constructing a method that will execute orders using automated pre-programmed trading instruction which will account for variables such as time, price, and volume. We are currently testing code on historical data/backtesting and then will move forward to deployment on paper trading for testing in real-time data.

◉ **Performing semantic segmentation to extract Mosquito Anatomy using Deep Learning [March 2022 - May 2022]**
with Omdena(VecTech)
Worked on two pipelines Data Annotation and Modelling. Managed annotation team and helped in coordinating between collaborators of the different time zone to ensure smooth progress, performed the annotation, and supervised annotations. Tools used for annotations - CVAT and Scale Rapid. Made five models namely- Finding fine details using Graph-Based Segmentation, Feature Pyramid Network for semantic segmentation, Multiclass U-Net using ResNetas backbones, High-Resolution Net for semantic segmentation, and Mask RCNN for semantic segmentation.

◉ **Plant Disease Classification (March 2022)**
Personal Project
Performing hyperparameter tuning and deciding the best CNN architecture using MONK AI to classify 39 different plant diseases using the data gathered by Plant Village. Tunned the hyperparameters like batch_size, input_sizes, learning_rate, optimizers, etc, and then trained and compared different experiments.

◉ **Sign Language Digits classification using MobileNet (MARCH 2022)**
Personal Project

◉ **Segmentation and analysis of Artificial Intelligence jobs in India (FEB 2022 - MARCH 2022)**
with Flynn Labs
Written about project in Experience Column

◉ **Breast cancer detection using transfer learning (FEB 2022)**
with TCR Innovation

◉ **Market Basket Analysis for small/medium businesses(JAN 2022)**
with Flynn Labs

CERTIFICATION

◉ **DeepLearning.AI TensorFlow Developer**
 - DeepLearning.AI
◉ **Neural Networks and Deep Learning -** DeepLearning.AI
◉ **Improving Deep Neural Networks: Hyperparameter Tuning, Regularization, and Optimization**
 - DeepLearning.AI
◉ **Structuring Machine Learning Projects**
- DeepLearning.AI
◉ **Convolutional Neural Network**
- DeepLearning.AI