Praneet Bomma
Jr Data Scientist

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WORK EXPERIENCE

Jr Data Scientist
Blackstraw.ai   *09/2019 - Present*

Machine Learning Engineer
Vidgyor Media Technologies   *06/2019 - 08/2019*

Deep Learning Engineer
Mobicule Technologies   *12/2018 - 01/2019*

React Native Developer
Digiklug Solutions LLP   *08/2017 - 08/2018*

PROJECTS

Health Risk Monitoring System
Built a FaceMask and Social Distancing violations detector using YOLOv3.
Optimized Model using TensorRT and gained 2x FPS.
Built a calibration tool to measure distance between two humans irrespective of the horizontal and vertical axis.
Dockerized the whole system for production deployment.
Productionized for 40 live cameras using Deepstream 5.0.

Document Intelligence
Extracting necessary information from documents using Mask RCNN and Stanford Core NLP. Document Classifier for 13 types of Documents.
Trained Mask RCNN model to localise columns, rows and tables in a doc.
Created a Flask Restplus API for inference.
Served 3 different models using Tensorflow Serving

Docify
A service for extracting text from ID cards in India, like Aadhar Card, PAN Card and Driving Licence
Used pretrained Connectionist Text Proposal Network for detecting text in an image.
Used Tesseract to extract text from the preprocessed image.
Implemented customised algorithms to map extracted data to entities.

Ad Detection
Detecting Ad using Audio Fingerprinting.
Ad Detection on livestream has a delay of 5 seconds with 90% accuracy.
Created a System to add and edit templates used to detect ads in News channels

Plant Monitor
A Deep Learning and IoT based system for disorder detection in tomato plants
Trained a Deep Learning model with Transfer Learning to detect disorders in tomato plants.
Collected Dataset for training on a field visit to a tomato farm.
Used Arduino to get values from temperature and soil moisture sensors.

Voices of Mumbai
A service for people to report potholes in their area.
Used a pre-trained YOLO Model to detect potholes in an image.
Created the service using Telegram Bot.
Deployed models using Flask

Skin Disease Detection
A service to detect selected skin diseases in an image.
Scrapped Dermnet Website for dataset collection using Selenium and BS4
Service was built using Telegram Bot

SKILLS

Deep Learning · Machine Learning · Computer Vision · Keras
Pytorch · Tensorflow · Sklearn · OpenCV · Deepstream
NLTK · CoreNLP · Python · Flask · RESTful · Docker
MongoDB · SQL · Bootstrap · Firebase · React Native

EDUCATION

B. E.
Mumbai University
2015 – 2019   *7.23 CGPA*

HSC
St. Andrews College of Engineering
2015   *63.85%*

SSC
Dr. Antonio da Silva High School
2012   *79.82%*

ACHIEVEMENTS

Outstanding Performer
Awarded the best performer for Q2 2020 in Blackstraw

1st Runner-Up
Hackathon organised by K. J. Somaiya College, Vidyavihar

1st Runner-Up
ITSA Hackathon organised by Sardar Patel College of Engineering

CERTIFICATIONS

Deep Learning Specialization
Coursera

BLOGS

Visualising LSTM Activations in Keras
Towards Data Science Publications

Indian Financial Markets in Pandemic
Report

ACTIVITIES

Official author for Towards Data Science Publications

Published Paper in AFITA Conference on Disorder Detection of Tomato Plants using Ensemble Techniques

Head Organiser of ERR_404 2.0 State Level Hackathon