

# 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. Productionized for 40 live cameras using Deepstream 5.0.

### Document Intelligence

Extracting necessary information from documents using Mask RCNN and Stanford Core NLP. Built 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