+919573205589 santosh.shanavas@gmail.com https://sooperdoop.github.io

Education:

- M.C.A Sastra University 77%
- · B.Sc Electronics & Tech. Loyola Academy 79%
- Maths, physics, chemistry junior college 77%

Area of Expertise:

- Data Science
- Machine Learning
- Deep Learning
- **Data Visualization**
- Computer vision

Certification:

- Coursera Machine Learning Stanford University
- Master Course in Tableau 10 & 2019 for Business Intelligence
- Machine Learning, Data Science and Deep Learning with Python

Intro: A Data Scientist passionate about data driven strategies, impactful experiments, with the organised technological stack.

WORK EXPERIENCE

2015 - PRESENT

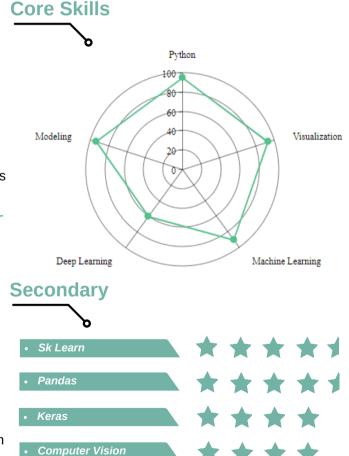
TATA CONSULTANCY SERVICES

2019 - Present DATA SCIENTIST

2016 - 2017 IOT DEVELOPER

AGILE COE GRP, TCS Hyderabad, India working as a full time Data scientist for CoE group to serve different teams in different geographical locations with divergent clients and problem statements

- 2018 2019 JR.DATA SCIENTIST & DATA ANALYST IOT IOU, TCS Chennai, India Worked with TRDDC as a Jr Data Scientist & Data analyst to improve over all Efficiency of a GTCC combine cycle power plant possessed by a Japanese client.
- 2017 2018 IOT & COMPUTER VISION EXPERT IGNITE LABS, TCS Chennai, India worked as an iot and Computer vision developer, Delivered an autonomous drawing robot with AI capabilities of pattern generation using computer vision and Deep neural networks.
 - IGNITE LABS, TCS Chennai, India worked as full time IoT developer, Developed few projects based on Robotics and Embedded Technology. Achievements and Awards: And also worked as a trainer of Python, Front end Technologies for 2 batches of 24 each.



- Innovation Pride Award CBO Technology and Innovations CoE
- Ignite AI Hackathon 2.0 Winner
- On the Spot Award Ignite

TensorFlow

I HAVE WORKED ON **Technology Stack Project Description** Multimetric correlation of infrastructure Metrics: Correlating different Infrastructure Metrics to pre-empt Infrastructure Machine Learning (ML), Predictive Analytics, Incidents. Various Infrastructure Metrics like CPU, Memory, Disc etc are Regression Algorithms, recorded using Prometheus. Future Metrics are predicted using XGBOOST Python, XGBOOST Algorithm. Pearson Correlation Co-efficient is used to find correlation among various metrics before predicting. Also implemented single input multiple output techique, Predict infrastructure behavior when workload increased, and provide recommendation through what-if analysis. • Product Recommendation using Facial Recognition: A machine learning model is build in AWS cloud for recommending Image Analysis, Collaborative filtering model, Python, products using Collaborative filtering model. To recommends products OpenCV, AWS Sagemaker. based on their past purchase, Once the customer is identified, the recommended products are pushed as SMS to the customer's registered mobile number. • Medical Image Classification (Pneumonia Detection): For detecting the cases of pneumonia from the X-ray images as early as Python, Keras, Tensorflow, Deep learning model possible with higher accuracy. Deep learning based solution takes medical VGG16, GCP Cloud ML images as input, process and generate results with over 98% accuracy at service, Intel NUC the edge. The solution can work without internet connectivity and generate results at lower latency · Crowd and Queue detection: Crowd and Queue detection is ML model based on Convolutional Neural Python, Tensorflow, Keras. OpenCV, CNN Algorithms, Network. This model helps to estimate and analyze the crowd density, with the help of IP camera, streaming the live feed of the store or block and the **Image Processing** feed is processed by the model and detects the persons using CNN algorithms. And the displays the count as well as detected people. • Visual inspection and Defect detection: Python, Keras, Tensorflow, Unet achitecture based image segmentation model to detect defects and Deep learning model Unet damages from the given image and live cam feed, achitecture, Deep Learning (DL), Image Analysis • GTCC power plant Model: Python, predictive analytics, Worked with TRDDC as a Jr Data Scientist & Data analyst to improve over all Efficiency and model a GTCC combine cycle power plant, used to build EDA, Sklearn, Machine **Learning Algorithms**

a digital twin. Random Forest ML model is build and delivered to mimic

power plant to test and improve over all Efficiency of real system.