Santosh Saxena

Junior Data Scientist

I am a Data Science enthusiast who has insights into Machine Learning, Deep Learning, Computer vision, and Natural language processing. I am Extending myself towards Data engineering and cloud to achieve Full-Stack Data Scientist. I am Multi-tasking and a Problem solver.

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🌐 scholar.google.com/citations?user=WifMgUgAAAAJ&hl=en

 github.com/SAXENA-SANTOSH

📱 8779876852

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 www.researchgate.net/profile/Santosh-Saxena

EDUCATION

Bachelors of Technology
Symbiosis Institute of Technology

06/2018 - Present

Courses
- Computer Science

PERSONAL PROJECTS

House Price Prediction (02/2021 - Present) ↗
- A Web-based AI application is developed to predict the prices of the house based on various features available in Dataset.
- File Validation and Data Validation is done based on master data management and source of truth.
- This application has the ability to choose an ML algorithm based on the cluster of the dataset. A similar data sample is divided into clusters and multiple models are created dynamically by the system.
- This application is deployed in the local system. The project source can be viewed on my Github account the link is : https://github.com/SAXENA-SANTOSH/House-Price-Predictor

Wafer Fault Detection ↗
- A web-based AI application is developed to classify the fault of the wafer available in sensors.
- This projects also contains similar features with respect to above project.

All the projects source can be viewed on my GitHub account. The link is : https://github.com/SAXENA-SANTOSH ↗

WORK EXPERIENCE

Data Science Intern
SCAAI (Symbiosis Center of Applied AI)

08/2020 - Present   *Pune*

Achievements/Tasks
- Applied Machine learning, Deep Learning, and computer vision algorithms, and various data preprocessing steps.
- Developed AI model for Suspicious person and Vehicle Detection. AI model predicts the name of the person with respect to the image.
- AI model predicts the name of the person from the image and has the ability to handle the face-covered exceptions and many more exceptions.
- This AI model needs only one to two image with label of respective class and with the help of dynamic training. This model is able to predict names with good accuracy.

Contact: Dr.Sharnil Pandaya - sharnil.pandya@sitpune.edu.in

SKILLS

ML   DL   Computer vision   Big Data   NLP

Data-Structures   Database   Statistics   AWS

RESEARCH PAPER

Pollution Weather Prediction System: Smart Outdoor Pollution Monitoring and Prediction for Healthy Breathing and Living (01/2020) ↗
Paper Link : https://doi.org/10.3390/s20185448

Published in Sensor Journal
We created a system in which a kit have been deployed in the house. Every time if the air quality inside the house goes bad, an indication is given to the respected person. We also proved some facts about which algorithms performs better in this case

JOB RESPONSIBILITIES

All the Job responsibilities is mentioned in the GitHub Account. The Link is : github.com/SAXENA-SANTOSH ↗

Programming Language : Python
Numpy, Pandas, Matplotlib, Seaborn, Plotly, Scikit-Learn, pickle, Keras, Open-cv, Tensorflow, Pytorch

DataBase : SQL, Sqlite

Tools/ IDE : PyCharm, VSCode, Jupyter Notebook

Machine Learning :
Linear Regression, Logistic Regression, Decision Tree, Support vector machine, Naive Bayes, Ensemble technique, Hyper parameter tunning

Deep Learning and Computer Vision
Artificial Neural Network, Convolutional Neural Network, Recurrent Neural Network, LeNET, AlexNet, VGG, Resnet, InceptionNet, RCNN family , Yolo family , SSD, Object segmentation(Mask-RCNN) , Object Tracking

Natural Language Processing
Encoder-Decoder, Self Attention, Transformer, Transfer Learning models

AWS : Basic level
S3 , Kinesis , EMR , Elastic search, dynamo DB , Aurora, EC2 and many more

Operating System : MacOs, Windows

Hardware : Tesla T4 from google colab

Version control : GIT