

Santosh Saxena

Data Scientist

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



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EDUCATION

Bachelors of Technology

Symbiosis Institute of Technology

06/2018 - Present

Courses

- Computer Science

Post Graduation program

Purdue University

11/2020 - 05/2021

Courses

- Data Engineering
- [Certificate](#)

PERSONAL PROJECTS

Housiculator (02/2021 - Present)

- A Web-based end to end AI application is developed to predict the prices of the house based on various features available in Dataset.
- The special part of this project is selecting data preprocessing, AI algorithm, and clustering is done without human intervention.
- This product will end the search and bargain for house and which will save 25% of buyers income.
- [Demo](#) , [Source Code](#)

Multi-camera Attendance System

- AI is predicting the names of person with multiple camera.
- Entire AI model is getting trained without an human intervention.
- This product will reduce 0.5 to 2% error , 10% time and 5% money.
- [Demo](#)

WORK EXPERIENCE

Data Science Intern

SCAAI (Symbiosis Center of Applied AI)

05/2020 - 06/2021

[certificate](#)

Achievements/Tasks

- Worked for Suspicious person detection with the role of AI developer and also collaborated with the Indian Army.
- Working for embedded mask detection in a sanitization machine for preventing Covid-19 as a role of AI developer

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

Data Science intern

Ineuron

05/2021 - 08/2021

[certificate](#)

Achievements/Tasks

- Leading Intern team for an AI-based Attendance system and surveillance
- ANN model is not static it is dynamic. It automatically create models which is according to dataset

Contact: Akhil kasare - akhil.ineuron.ai

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>. We created a system in that a kit has 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 perform better in this case

published in MDPI sensors (Q-1 international journal)

[view paper](#)

TECHNOLOGIES USED

Programming Language : Python , C++, C, Java

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

Web-Development : Front-end and backend

HTML , CSS , Flask

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 tuning

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

Big Data

Hadoop : Hive and spark in scala and python

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