

SAURABH SURESH SINGH

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CAREER OBJECTIVE

Secure a responsible career opportunity to fully utilize my competencies and skills, while making a significant contribution to the success of the company.

PROGRAMMING SKILLS

- Programming Language : Python, C.
- Operating System : Windows, Ubuntu.
- Hardware Worked : Raspberry pi 3.
- Web Framework : Django.
- Qualified NTA N.E.T. examination , December 2019.

Self-learned Machine Learning and Deep Learning projects

1. Face Detection.

- Dataset used:- CelebFaces Attributes(CelebA) Dataset
- Algorithm used:- yolov2, tiny-yolo, faster RCNN, yolov5(fastest face detection)
- Core skill:- Face detection, object detection.

2. Digit Recognizer.

- Used MNIST Handwritten digit dataset to train Deep Neural Network to predict digits.
- Applied RMS optimizer and Categorical Cross Entropy as a loss function.
- Architecture Used : Google network, VGG network, Resnet network(highest accuracy)
- Core skill: Object classification, model selection, Convolution neural network.

3. NSFW(Not safe for work) Detection.

- Database was collected from internet using web scraping and using some API for popular social networking site(Reddit).
- Binary category classification(NSFW vs SFW).
- Transfer learning was used to earn the accuracy upto 94%.
- Core skill: Transfer learning from pretrained model, Neural Network.

4. Exercise Counter.

- Pretrained model(Human pose detection) used for detecting the joints.
- Three Joints were used to calculate the angle.
- Shoulder press and biceps curl detection were implemented.
- Core skill: Pose estimation

5. News Summary

- Collecting daily news from various leading newspaper in India through an API.
- Multi source have similar news so used pretrained sentence tokenizer from transformer library.
- Creating a short summary of a news using NLP and python.
- Core skill: NLP, Transformer.

6. Web Scraping

- Scraped the Amazon store website to get the price detail of the product.
- Used windows toaster to get daily notification using window task scheduler.

CORE SKILL

**Machine Learning, Data analysis, Data cleaning, Data visualization.
Computer Vision, Face Detection, Face Recognition, Object Detection.
Natural Language Processing, Text Classification, Topic Modelling.
Dimensionality Reduction, Unsupervised Learning.**

PERSONAL DETAILS

Date of birth : 15 February 1992
Nationality : Indian
Languages known : English, Hindi, Marathi.
Education :

Course	Institution	YEAR OF PASSING	Board/ University
BE	Vidyalankar Institute of Technology, Wadala (Electronics and Telecommunication)	2014	Mumbai University
MTech	College of Engineering, Pune (VLSI and EMBEDDED SYSTEM)	2018	Pune University

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