Rutuja Padgilwar

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Education:

Bachelor's in computer science   **Aug 2016 - Nov 2020**

SGGS Institute of Engineering & Technology, Nanded, India   **CGPA 7.7**

Technical Skills and Interests:

- **Machine Learning:** classification, regression, clustering, feature engineering.
- **Software and Programming Languages**: Python, OpenCV, Keras, TensorFlow, Java, C, SQL, JavaScript, Firebase, Html.
- **Interests:** Computer Vision**,** Machine Learning, Deep Learning, Software Development.

Professional Experience:

System Engineer, Infosys Limited, Pune, India   **July 2021 to date**

- 2.5 months training on cyber security fundamentals, RSA, tcpdump, firewall, security tools
- Currently working to provide network security to the client
- Working on cisco FMC, VPN implementation, VPN tunnel migration IKEv1 to IKEv2, checkpoint firewall, setting policies on palalto and FortiGate firewall

Software Developer, Mindbowser Info Solutions Pvt. Ltd. Pune, India   **June 2020 to June 2021**

- Worked with the team, designed a solution to customer
- Worked on machine learning algorithms**,** Design and develop classification, regression model for client
- Tech Stack: Python 3, Jupyter Notebook, Plotly, Pandas, Sklearn, Numpy, Seaborn, etc.

Software Developer intern, Mindbowser Info Solutions Pvt.Ltd. Pune, India   **Dec 2019 to May 2020**

- learned machine learning algorithms
- worked on classifier model

Project:

ASL/ISL sign language to text conversion

Aim: To create an application that converts Real-Time Sign to Text/Voice Converter

- Designed a website for video dataset collection (site link: https://asl-dataset.web.app/ Collect sign video dataset with the help of friends and family members.
- Trained Deep Learning neural network by using different pre-trained model ResNet50 and Keras video frame generator
- **Tech Stack**: Keras, TensorFlow, CNN, RNN, LSTM, OpenCV, python

Mini Projects:

1.   Rubik's Cube Solver Using Python

Aim: To develop an application to solve the Rubik's Cube using a camera

- Captured all the faces with a camera and then applied the kociemba module
- Github Link: https://github.com/rutujapadgilwar06/rubik-s-cube
- **Tech Stack:** Python, OpenCV

2.   Pneumonia Classifier Using Kaggle Dataset

Aim: To design a Model for Pneumonia Detection Using Deep Learning Neural Network

- Classified pneumonia images by using a convolutional neural network and softmax function
- **Tech Stack:** Python, CNN

3.   Denoising Dirty Documents using deep Neural Network

Aim: To design a model for Removing noise from multimedia using auto-encoders

- Worked on a deep neural network to remove noise from images and audio dataset
- Worked with various types of denoising auto-encoders to measure performance

Tech Stack: Python, CNN, convolutional autoencoder

Extracurricular Activity:

Volunteered at 'Drishti 2k17', a college exhibition to exhibit artwork by students

Awards and Achievements:

Participated in a hackathon challenge – 'Uber HackTag 2021', and was selected in the Top 5 teams from 25,000+ teams