NISARG KAPKAR

Computer Engineering Undergraduate Student

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EDUCATION

PANDIT DEENDAYAL PETROLEUM UNIVERSITY, GANDHINAGAR, GUJARAT

B.Tech. in Computer Engineering (2022)

- 9.6 CPI

ST. KABIR SCHOOL, AHMEDABAD, GUJARAT

Senior Secondary (2018) & Higher Secondary (2016)

- 92.8% in Senior Secondary School
- 9.8 CGPA in Higher Secondary School

SKILLS

- **Programming Languages:** Python, C/C++, JAVA
1. **Python:** Sklearn, Pandas, Numpy, Matplotlib, Seaborn, TensorFlow 2.x, OpenCV, PIL, NLTK
- **Machine Learning & Deep Learning**
- **Web Development:** HTML, CSS, JavaScript, Bootstrap
- **DBMS:** MySQL
- **Designing:** Inkscape, Adobe XD, Canva
- **Tools and Technologies:** Git/GitHub, Google Colab, Google FireBase, VSCode
- **Non-Technical:** Leadership, Teamwork, Problem Solving, Critical Thinking

ACHIEVMENTS

- Secured global rank of 41 in "Code Ensemble 2020" held on CodeChef.
- Ranked 1st in University and 260th in India in “Google HashCode 2020”.
- Secured global rank under 500 in "Techgig Code Gladiators 2020" finals.
- Won best pitch award in “Lets Hack Hackathon 2019” held at PDPU.
- Winner at “DARE2CODE 2019”(coding contest) at VGEC College,Gujarat.

WORK EXPERIENCE

DATA SCIENCE INTERN

DP NeuroTech, Nov 2020 - Present

- Worked on Spam Detection Model using NLP (Python's NLTK library). Achieved accuracy of 98.5% in the final model.
- Working on Cancer Prediction Model based on a Gene Dataset (ML+NLP)

DATA SCIENCE INTERN

The Sparks Foundation, Nov 2020 - December 2020

- Worked on various Data Science, Machine Learning & Deep Learning projects/tasks.
- Projects/Tasks: Training supervised & unsupervised models, implementing an object detector, performing exploratory data analysis.

PROJECTS

PROJECT SAFESHOP

IBM Call For Code 2020, July 2020 - October 2020

- Led a team of 5 people.
- Developed a Face Mask Detector. Trained a model using Supervised Learning to detect 3 classes: with_mask, without_mask, mask_weared_incorrect.
- Implemented Distance Tracking Algorithm. The algorithm tracks the distance of nearby users and notifies the user to maintain appropriate social distancing.
- Designed front-end prototype for Mobile Application for placing orders.

Used: Python(OpenCV, TensorFlow 2.x, Matplotlib), Google Colab, Google Firebase, Adobe XD

Github: github.com/Project-SafeShop

VIDEO & IMAGE BACKGROUND REMOVAL USING DL

December 2020 - Present

- Created a web application where users can upload image/video and the app will return a new image/video with background removed.
- Used the U-2-net deep model (Salient Object Detection model) along with OpenCV and PIL for background removal.

Used: Anvil(for web app), Python(OpenCV, PIL), Google Colab

Github: github.com/Nkap23/Background_Removal_DL

DOG BREED CLASSIFIER USING TENSORFLOW

Sept 2020

- Trained a Supervised Learning model to classify 10 different breeds of dogs. The model achieved an accuracy of 95.6% on the test dataset.

Used: Python(OpenCV, TensorFlow 2.x), Google Colab/Jupyter Notebook

OS SCHEDULING ALGORITHM VISUALIZATION

August 2020 - November 2020

- Created a GUI Application for OS Scheduling Algorithm Visualization.

Used: Python(PyQT5, Matplotlib, xlsxwriter)

Github: github.com/ParthPrajapati43/OS-Algorithms

POSITION OF RESPONSIBILITY

- President/Student Representative and Python Department Head at CodeChef Campus Chapter, PDPU.
- Public Relations Head at CUBE-I-CULT, PDPU.