HERUMB SHANDILYA

DATA SCIENTIST / MACHINE LEARNING ENGINEER

TECHNICAL SKILLS

- Data Science
- Relational Databases
- Machine Learning
- Deep Learning
- Data Analysis
- Computer Vision
- Natural Language Processing
- Statistics and Probability
- Arduino/IOT
- Flask
- FastAPI
- Jinja2
- Raspberry Pi
- Python
- Git
- Web Scraping
- Data Structures
- Linux

PERSONAL SKILLS

- Quick Learner
- Reliable and Professional
- Organized
- Time management
- Always Motivated
- Project Management
- Communication Skills
- Punctual
- Content Writing

VOLUNTEERING EXPIRIENCE

- Volunteer, Microcontroller Based Robotics Club

ARTICLES

- The Average Coder - Medium
- herumbshandilya - Geeks for Geeks

PROFILE

I am a curious and enthusiastic College Student, I love learning new things and am always sincere in the tasks provided to me. I am pursuing B.Tech. in Computer Science. I am seeking to use my knowledge in Data Science and Machine Learning to effectively serve your company in an internship position. I am dedicated and committed to becoming a dependable and valuable team member.

EXPERIENCE

DATA STRUCTURE AND ALGORITHM TEACHING ASSISTANT

Coding Ninjas | Dec 2019 - Apr 2020

- Mentored a group of students in their course Data Structure and Algorithm using C++.
- Worked well independently and on a team to solve problems.
- Served as an influential contributor for content development projects created by students.

DATA SCIENCE AND MACHINE LEARNING TEACHING ASSISTANT

Coding Ninjas | May 2020 - Sep 2020

- Mentored a group of students in their course Data Science and Machine Learning.
- Worked well independently and on a team to solve problems.
- Evaluated and improved the projects created by students as a part of the course.

EDUCATION

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

Jaypee Institute of Information Technology | 2018 - Present | 8.5(CGPA)

ACHIEVEMENTS

- Sucessfully Completed Hacktober Challenge.
- 3rd Position in Ucr Manual Event's Robo Race 2018.
- 1st Position in Converge's Robo Race 2018.
- 1st Position in Impression's Robo Race 2019.
- 1st Position in Impression's Build-a-Thon 2019.
- 3rd Position in Cyber Shrishti's Project Exhibition 2019.
- 3rd Position in JSCOP's CP contest 2019.
- 3rd Position in Impression's Build-a-thon 2020.

MY PROJECTS

OMR Sheet Evaluator

- Deployed over web using Flask that takes the image of OMR sheet filled by the students and answer key file to store and display the result of the student along with the enrollment no. by finding choice he filled in OMR.
- **Technology Used:** OpenCV, Flask, SQLite, Jinja2, Numpy, HTML/CSS

Voice Controlled Handwriting Machine

- A Device that I created to take speech as input in a app template created in Blynk, which was coverted to text and sent to NodeMCU which instructed the movements of motors in order to write the text on Paper
- **Technology Used:** NodeMCU, Blynk

Face ID Lock for Doors using Raspberry Pi

- A Biometric Door Lock that can register a user by taking 30 snapshot of users face detected using HAAR Cascades, captured by PiCamera, and use those images to train a face recognizer to recognize the registered users. If the user is recogized as a registered one then the Door was unlocked using GPIO Zero Library to control the lock.
- **Technology Used:** OpenCV, Raspberry Pi

Automated Parking System

- The task was to automate the data entry part of a parking garage, by taking in a video as an input, I used Detectron2 to find the vehicle in the frame and extracted, after which I extracted the License Plate by finding rectangular contours using OpenCV and passed that as input to the OCR to get the text as output and storing it and vehicle type in the SQLite database.
- **Technology Used:** Detectron2, OpenCV, SQLite, Tesseract

Social Distance Remote/Physical Surveillance

- Task is to implement a real time social distance surviellance that detects people using Detectron2 and mark the people if they cross a threshold distance and stream this to web. Since the video feed came from multiple CCTV we tramitted the id of video feed's result to Firebase, this data was fetched via NodeMCU which intructed the LED of corresponding ID to glow alerting people.
- **Technology Used:** PyTorch, Detectron2, HTML/CSS, Flask, NodeMCU, Firebase, Scipy, Numpy, OpenCV, MicroPython

Face Generation using DCGAN

- Trained over celeba dataset, my goal was to get a generator network to generate new images of faces that look as realistic as possible. I was also able to visualize the results of my trained Generator to see how it performed
- **Technology Used:** PyTorch, Pandas

ImDB Review Sentiment Analysis using LSTM

- Deployed over web using Flask and trained on ImDB movie review. The review was submitted as input via a form on web which was given a input to NN to return weather the review was positive or negative.
- **Technology Used:** PyTorch, HTML/CSS, Flask

TV Script Generation

- This project used RNN thats were trained over Seinfield Script. The model takes starting words as an input to generate a script of fixed size by itself.
- **Technology Used:** Pytorch(RNN), NLTK

Dog Breed Prediction using CNN

- This project was divided into 2 parts, first part was using pretrained VGG16 model to predict the breed of the dog in the image. The second part was to build a CNN in PyTorch to classify dog breed. Image Augmentations were applied on training datain order generalize the data for model to train on.
- **Technology Used:** Pytorch(CNN, VGG16)

OTHER PROJECTS

- **Image Weather Convertion using CycleGANS:** Convert Summer Scenery to Winter and vice versa.
- **Image Denoising using Convolution AutoEncoder:** The task was to take a noisy image as an input and denoise it using Convolution Autoencoder.
- **Auto Garbage Disposal System:** To Create a dustbin that automactically disposes the garbage when a garbage truck arrives
- **Home Automation System:** Control Home appliances and Door Lock From your Mobile.
- **Traffic Management Application:** A CRUD app, secured for injection attacks, that was deployed over web thats can sign in/up a user so that it could input Data regarding the Vehicle and store it in sqlite database.
- **Bluetooth/Voice Controlled Car**
- **Data Analysis on Women's Apparel E-Commerce Dataset**

CONTACT

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