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DIVYAM SINHA

Pursuing Computer Science and Engineering Graduation
Maharaja Agrasen Institute of Technology, New Delhi

ABOUT ME

Hard Working individual with a strong focus on learning principles of real-world software development with machine learning and using these to deliver results. A team player, self-starter with a collaborative approach to problem solving. Seeking fulltime opportunity to contribute in the organization and grow as a Software Development Engineer.

INTERNSHIP

Associate Software Engineer Intern at IndiaMart

March 2022 – May 2022

- Hands on Experience on Oracle, Linux, SEO, Google Analytics, Github, Kibana
- Integrated DBMS (oracle + pgsql) with Golang and PHP
- Trained on Development best practices

Tech Stack: **Golang, PHP, DBMS, GitHub**
Certificate: https://bit.ly/IM-Intern

ML Intern at Vamcom Digital

February 2022 – March 2022

- Working on Posture based Authentication Mechanism
- Derived Face, palm position and posture from image using Image Processing
- Performed similarity estimate using Pythagorean Distance Algorithm for authentication

Tech Stack: **MediaPipe, OpenCV, Numpy, Face_Recognition, Matplotlib**
Certificate: https://bit.ly/VamCom_internship

AI Intern at B-Aegis Life Sciences

May 2020 - June 2020

- Created Coughing Sound Detection Model to detect coughing sound even in noises.
- Extracted mfccs feature from dataset and trained binary classifier with **CNN & LSTM**
- Increased accuracy by removing silence to **97.8 %** with a baseline accuracy **of 99%.**

Tech stack: **Python, Pandas , Librosa , Numpy , Keras , python_speech_features**
Certificate: https://www.b-aegis.com/verify-ic04dsnmtje

PROJECTS

Mood Based MP3 player

Project to play songs based on mood.

- Model made using **CNN+MLP** layers detects face expression; MP3 player using **Tkinter**.
- The expression obtained is fed to an MP3 player, a list of songs is displayed and played

Tech Stack: **Colab, Numpy, Matplotlib, OpenCV, Pandas, Sklearn, tkinter, pygame**
Github: https://github.com/divyamsinha/Mood-based-MP3-Player

Fake Cartoon Face Generation

Learning the faces of cartoons and generating similar images from them.

- Made use of **DCGAN** technique to create and train generator and discriminator pair.
- A generator create fake images and discriminator classifies between real fake images.
- With multiple iterations, generated fake image and real image are indistinguishable.

Tech Stack : **Colab , Numpy , Matplotlib , OpenCV , Keras , Pandas**
Github: https://github.com/divyamsinha/FakecartoonfaceGeneration

PUBLICATION

Blockchain based Online Voting System

Demonstrated how blockchain can add immutability and security in online voting system
Reference: https://bit.ly/research-paper-blockchain

EDUCATION

B.Tech Computer Science and Engg.
2018 - Current
Maharaja Agrasen Institute of Technology, New Delhi
GPA: 8.49

Secondary & Sr. Secondary Education
2014 – 2017
Amity International School
Pushp Vihar, New Delhi
Score: 91.4 % (Class 12)
CGPA 9.4 (Class 10)

SKILLS

- Data Structures
- Machine Learning
- Software Development
- Deep Learning
- Image Processing

TOOLS & FRAMEWORKS

C++, Python, MySQL
Tensorflow, Keras, Pandas
Librosa, OpenCV, Sklearn,
NumPy, Matplotlib, GTTS
MediaPipe, Face_Recognition,
Golang, PHP, PostgreSQL, Kibana

REWARDS & RECOGNITION

IGDTU - Defender of the Space
Secured 3rd Position for solving programming problems and puzzle.

MAIT - Days of hack Hackathon
Special Mention for idea about predicting disaster in Glacier areas using ML