Surili Bharat Hansalia

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EDUCATION

University of Southern California (USC) , Los Angeles **August 2021-May 2023**
Master of Science, Computer Science *GPA: 3.5/4.0*
Coursework: Machine Learning, Database Systems, Analysis of Algorithms, Web Technologies

Pandit Deendayal Petroleum University (PDPU), Gandhinagar, India **August 2016-June 2020**
Bachelor of Technology, Information and Communication Technology *GPA: 9.26/10.0*
Coursework:Operating System, Design and Analysis of Algorithms, VLSI, Object oriented Programming

TECHNICAL SKILLS

Languages: Python, C++, C, JAVA, HTML, SQL, JavaScript, CSS, Embedded C
Databases: RDBMS(MySQL, PostgreSQL), NoSQL(MongoDB)
Platforms and Tools: GCP, NetBeans, Visual Studio, MATLAB, Jupyter Notebook, PyCharm, MySQL Workbench

WORK EXPERIENCE

Sophos Technologies Private Limited - IT Intern **January 2020-July 2020**

- Part of the Global Service Desk Team. It's frontline support for internal Sophos employees.
- Designed Powershell scripts for automating New Hire and Leaver process to reflect information in Active Directory.
- Monitored and managed JIRA service requests and incidents by troubleshooting.

RapidOps Solutions - Data Science Intern **June 2019-July 2019**

- Developed a project named Email Signature Extraction.
- Executed it using the SVM model for training and classification of lines extracted from mails from gmail inbox. Output is produced in a Json file with signature information.
- Learned basics of JavaScript and NodeJS from a mentor and learning portal of company.

PROJECTS

Face Recognition [Python]

- Designed a system performing face verification and face recognition. Encoded face images into 128-dimensional vector using CovNet, calculated loss and trained model. Built face recognition method computing L2 distance between target and current from the database and returns label.

Autonomous Driving - Car Detection [Python]

- Built a program using the 'You only Looks Once' algorithm, doing one forward propagation to make predictions. Implemented non-max suppression method producing bounding boxes with recognized objects.

Art Generation [Python]

- Developed Neural Style Transfer using previously trained VGG-19 network. It generates an image as a composition of content image and style image.

Licensed Control Smart Vehicle [Arduino Programming]

- Engineered a system formulated to prevent a person from igniting a vehicle if he/she is not a registered license owner as per provided database. Created as a participant of Gujarat Industrial Hackathon 2019 conducted by SSIP.

Prediction of Cab Cancellation [Python]

- Devised a project on prediction of cab cancellation based on booking dates and other relevant features from a given database using data mining algorithms such as naive bayes, decision tree, and KNN.

Survey Paper on Wireless Communication Schemes for Microcontroller

- Researched on communication through Zigbee, Bluetooth, Wi-Fi (IEEE 802.11), and GSM.

ACTIVITIES

- Finalists of SSIP-Gujarat Industrial Hackathon 2019
- Documentation team member of Offbeat - Music club of PDPU
- Design team member of FLARE - cultural fest of PDPU
- Volunteered to work for Tapibai Vikas Gruh NGO as a tutor for orphaned girls