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**PORTFOLIO** – <https://nileshchilka1.github.io/my-portfolio/#/>

## EDUCATION

**Walchand Institute of Technology.**

**Aug 2017 – Jun 2021**

*BE in Electronics & Telecommunication*

**Walchand College of Arts & Science.**

**Jul 2016 – Feb 2017**

*H.S.C, Science*

## TECHNICAL SKILLS

**Programming Languages:** Python

**Tools:** Pandas, Numpy, Scikit-learn, Keras, NLTK, Matplotlib, Seaborn, Flask, OpenCV, Selenium, Docker

**IDE:** Pycharm, Jupyter Notebook      **Databases:** SQL SERVER, MySQL

**Cloud Platforms:** Microsoft Azure, Amazon Web Services, Google Cloud Platform

## WORK EXPERIENCE

**Ernst & Young LLP.**

**Dec 2021 – Present**

*ML Engineer @ Client, Anheuser-Busch InBev*

- **Dockerized, Designed** end to end pipeline using **Data Factory, Function App & Container Instances**.
- Deployed, Checked Status, Stored Logs & Deleted **Constainer Instances** via **ADF & Function App**.
- Shared the output over mail using **Logic App** and Stored the same in **SQL Database & Blob**.
- Built complete backend API's using **Flask** for Web Application.

**KAGLORSYS TECHNOLOGIES PVT. LTD.**

**Jun 2021 – Nov 2021**

(I) *Jr. Data Scientist @ Client, Skylar Capital Management LP*

- **Worked independently** from requirements gathering till Model deployment.
- Using **Selenium** collected historic data and trained YOLOv5 model.
- Developed WebApp using **Flask** to view Live Predictions and stored predictions in **SQL SERVER**.
- Sends alert after status change, ultimately reduced human time and effort.

(II) *Facial Analysis viz. Gender, Age, Emotion & Active Speaker Detection*

- Used Age, Gender & Emotion classification models for facial analysis.
- Trained **LightGBM** on time series distance between lips for **Active Speaker Detection**.
- Tracked each face & saved **Gender, Age & Emotion** information in **S3 Bucket**.
- All the information can be visualized using plots and exposed it as an API using Flask.
- Containerized using **Docker** & created **proof of concept (POC)**.

*Data Scientist Intern @ KAGLORSYS TECHNOLOGIES PVT. LTD.*

**Feb 2021 – May 2021**

**Real-Time Bike Detection, Tracking, Counting & Speed Estimation:** [Demo Link](#)

- Collected Data by recording roads, annotated and trained **YOLOv5** model and achieved **0.85 mAP**.
- Developed WebApp using **Flask** which accepts live IP camera address.
- Saved data like in count, out count, etc. of bikes for further analysis & created **proof of concept (POC)**.

## PROJECTS

**Computer Vision for Blind Person:** [Github Link](#) [Demo Link](#)

**Dec 2020 – Jan 2021**

- Used pre-trained **YOLOv3** model trained on COCO Dataset for Object Detection.
- Generated the speech such as 2 persons at center right, 2 glasses at center, 1 chair at bottom left.
- Deployed in App Engine in **Google Cloud Platform (GCP)** using **Flask**.

## CERTIFICATIONS

**Applied Data Science with Python Specialization**

- Introduction to Data Science in Python.
- Applied Plotting, Charting and Data Representation
- Applied Machine Learning in Python.
- Applied Text Mining in Python.
- Applied Social Network Analysis in Python.

**Deep Learning Specialization**

- Neural Networks and Deep Learning.
- Hyperparameter Tuning, Regularization & Optimization
- Structuring Machine Learning Projects.
- Convolutional Neural Networks.
- Sequence Models.