NILESH CHILKA | +91 808-784-0150 | nileshchilka1@gmail.com | https://www.linkedin.com/in/nilesh-chilka
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, C
Tools: Pandas, Numpy, Scikit-learn, Keras, NLTK, Matplotlib, Seaborn, Flask, OpenCV, Selenium, Docker
IDE: Pycharm, Jupyter Notebook ***Databases:*** MySQL, MongoDB
Cloud Platforms: Google Cloud Platform, Amazon Web Services

WORK EXPERIENCE

Data Scientist @ KAGLORSYS TECHNOLOGIES PVT. LTD. **Jun 2021 – Present**

Status Monitoring:

- **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.

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** in JSON Format.
- 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 **Google Cloud Platform** (GCP) using **Flask**.

Aadhar Card Details Extractor: *Github Link* **Sep 2020 – Oct 2020**

- Collected Aadhaar Card images from Google and trained **VGG16** model for classification.
- Extracted the details from Aadhaar Card using **EasyOCR** & face by using Haarcascade Classifier.
- Stored all the details in **MySQL** Database.

Sentiment Analysis of Covid-19 Tweets: *Github Link* **Jun 2020 – Jul 2020**

- Downloaded the dataset (sentiment140) from Kaggle and preprocessed using **NLTK**.
- Trained **LSTM** model using **Keras** and analyzed the sentiments of live tweets by plotting.

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.