

NILESH CHILKA

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PORTFOLIO – <https://nileshchilka1.github.io/my-portfolio> | **LinkedIn** – <https://www.linkedin.com/in/nilesh-chilka>

EDUCATION

Walchand Institute of Technology.

B.E. in Electronics & Telecommunication

TECHNICAL SKILLS

Programming Languages: Python

Tools: Pandas, Numpy, Scikit-learn, Keras, NLTK, Matplotlib, Seaborn, Flask, OpenCV, Selenium, LangChain, Llama Index, Langflow, LangKit, Docker, Kubernetes

Cloud Platforms: Azure, AWS, GCP

Databases: SQL SERVER, MySQL

WORK EXPERIENCE

Quantiphi Analytics Solutions

Nov 2022 – Present

ML Engineer – Maersk (Client)

HR Copilot Gen AI

- Worked on **LLM's** for Retrieval Augmented Generation using **LangChain, Llama Index**.
- **Finetuned** the Llama-7b LLM on custom data using **auto-train** from Hugging Face.
- Developed Document Ingestion Pipeline for Indexing into **Milvus Vector DB** on daily basis using CronJob.
- Built **Flask** API's on **Retrieval Augmented Generation** for UI Application.

Ernst & Young LLP.

Dec 2021 – Nov 2022

ML Engineer - Anheuser-Busch InBev (Client)

Smart OTC

- **Dockerized, Designed** end to end pipeline using **Data Factory, Function App & Container Instances**.
- Worked on **Function App** to Deploy, Check Status, Store Logs & Delete **Container Instances** via **ADF**.
- Designed **Logic App** to trigger mail & shared files from **Blob**, depending on status of **Container Instances**.
- Built complete backend API's using **Flask** for Web Application.

KAGLORSYS TECHNOLOGIES PVT LTD.

Feb 2021 – Nov 2021

Jr. Data Scientist - Skylar Capital Management LP (Client)

Status Monitoring of Trains:

- **Hands on** requirement gathering to Model deployment.
- Collected historic data using **Selenium** and trained YOLOv5 model.
- Developed WebApp using **Flask** to view Live Predictions and stored predictions in **SQL SERVER**.
- Alert on status change resulting in better efficiency.

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 to record **Gender, Age & Emotion** information in **S3 Bucket**.
- Visualized stored records using plots, exposed it as an API using Flask & developed **POC**.

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

- Data gathering - road recordings, Data annotation & trained **YOLOv5** model achieving up to **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)**.
- POC developed - Data metric analysis on incoming/outgoing count of bikes.

CERTIFICATIONS

Applied Data Science with Python Specialization – Coursera

Deep Learning Specialization - Coursera