NILESH CHILKA

+91 808-784-0150 | nileshchilka1@gmail.com
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, Tensorflow, Pytorch, NLTK, Matplotlib, Seaborn, Flask, OpenCV, Selenium, LangChain, Llama Index, LangGraph, LangKit, Docker, Kubernetes, Power BI.
Cloud Platforms: Azure, AWS, GCP   *Databases:* SQL SERVER, MySQL, MongoDB

WORK EXPERIENCE
Quantiphi Analytics Solutions   **Nov 2022 – Present**
ML Engineer – Maersk (Client)
  HR Copilot Gen AI
- Worked on **LLM's** for Retrieval Augmented Generation (RAG) 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 **Qdrant Vector DB** on daily basis using CronJob.
- Built **Flask** API's on **Retrieval Augmented Generation** for UI Application.
- Built **Power BI** Dashboard for Monitoring metrics like Usage cost, Logins, Tokens, Feedback, etc.

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.   **Apr 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).**

CERTIFICATIONS
Microsoft Certified: Azure Data Scientist Associate – Microsoft
Applied Data Science with Python Specialization – Coursera
Deep Learning Specialization – Coursera