

# HARSH MAHESHWARI

## Data Scientist & Automation Freak

in Harsh-Maheshwari  Harsh-Maheshwari  harshmaheshwari3110@gmail.com  9834470295



## WORK EXPERIENCE

**Data Scientist**  March '22 - Present

**Blue Yonder**  Bangalore, India

- Building production ready deep learning models using Tensorflow2.X, TFX, Kubeflow and Apache Beam to solve challenges in Supply Chain Management
- Working on problems like Logistic Optimization, Inventory Management, Sales Forecast, Delivery Time Prediction, Markdown predictions etc

**Enterprise Data Automation**  June '21 - March '22

**ANZ Bank**  Bangalore, India

- Responsible for processing APRA regulatory data & creating pipelines for 70+ source systems using ETL tools like IBM DataStage, Teradata & Control M
- Developed an end to end Data processing automation tool using Robot Framework & python for reducing the development & testing time by 50%
- Responsible for Creating & managing DataStage & Control M jobs in production to ensure correct loading of data from ascii, semi ascii or ebcdic files
- Leading an initiative to improve the technology culture & adoption the in bank.

**AI Research, Prof. Bryan Hooi**  Nov '19 - Dec '19

**School of Computing | NUS**  Singapore

- Developed Temporal Attention model for node classification & link prediction and Analysed the dependency of graphs on time using dynamic models like Node2Vec, Temporal Node Embedding and Attention Walk
- Found efficiency & inefficiencies of models like TMF, CTDNE, BANE on different data sets for link prediction task and improved them to get AUC of 86% for College Messages dataset

**Business Intelligence**  April '20 - June '20

**Axis Bank**  Mumbai, India

- Built a micro-service with a Django web interface for predicting customer income with 90% accuracy using nominatim, scikit-learn, docker and Kubernetes
- Built XGboost regression model with features derived using KNN algorithm on geocoding information, customer address, customer history, transaction data

**Computer Vision Lead**  Oct '19 - Dec '20

**Innovation Cell**  IIT Bombay, India

- 15 students from different departments come together to innovate reality.
- Designed and developed an autonomous fixed wing for search and rescue missions customized for the IARC challenge. Integrated a ROS enabled camera system for detection of characters from a height of 50 meters on a flying drone
- Obtained accuracy of 94 % using transfer learning on MobileNetV2 architecture on custom aerial data set Also, Developed a multi-core zoom-in characters recognition model based on Char74 dataset using OpenCV & Keras

**Modelling of Gas sensor data**  Aug '19 - Nov '19

**Prof. Sharad Bhartiya**  IIT Bomaby, India

- Analysed Concentration of CO and Ethylene based on sampling time, Auto correlation, cross correlation and DFT analysis on time varying sensor data.
- Analysed the system by introducing 1%, 10% & coloured noises using Impulse estimate, Step estimate Plots & ETFE and Predicted concentration of dynamic gas mixture using ARX, ARMAX, non-linear ARX models.
- Achieved best accuracy of 92.96% & 92.75%for concentration of CO and Ethylene resp. in the 1 step ahead prediction

## LIFE PHILOSOPHY

*"Invest in the truly important things in life. Remember, everything that is worth something costs something."*



### Persistence & Patience

"Keep On Keeping On"



### Go Giver


Value, Compensation, Influence, Authenticity, Receptivity



## EDUCATION


**B.Tech. in Chemical Engineering**

**Indian Institute of Technology Mumbai**

 July'17 - May'21 CGPA : 7.7

**Semester Exchange**

**Danmarks Tekniske Universitet**

 Jan 2019 - June 2019

- AIR 735 among 13 Lakh in JEE Main
- AIR 1382 among 2 Lakh in JEE Advanced

## INTERESTS

Data Analysis & Modeling

Machine Learning Big Data

Deep Learning Computer Vision

Time Series Analysis

Graph & Network Analysis



## TECHNICAL SKILLS

TFX Kubeflow Apache Beam

Docker Kubernetes

Robot Framework Python SQL

PyTorch keras Tensorflow

Numpy Pandas ScikitLearn

Matplotlib Opencv Unix

IBM DataStage Teradata

Control M Django Julia

Matlab Apache Spark

Dask,Modin