



# Manishanker Talusani

## Data Engineer

Experienced software engineer with 8+ years experience in Data Engineering and Machine Learning

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🌐 [www.topcoder.com/members/manishankert](http://www.topcoder.com/members/manishankert)

## WORK EXPERIENCE

### Team Lead - Data & Analytics Wipro (Topcoder)

10/2020 - Present

Remote

#### Achievements/Tasks

- Lead data engineering team for Jhonson & Jhonson on OTIF-D which encapsulates complete supply chain across the globe for Consumer business unit
- OTIF-D brings in SAP data from all global regions and using Azure databricks, SQL and Pyspark we deliver dashboard which signifies overall how many products are delivered on time and in full
- Built data pipelines in **Python, Pyspark, Azure Datafactory V2, Data Vault 2.0** for ingesting data from Energy source companies like PolicyNet, CIS with combined data size of 20GB per day
- Built Azure databrick notebook for transforming and building business logic for migrating MDM data from Oracle to Reltio for Pharma client
- Designed initial generic pipelines which are used to pull data from Oracle to IBM CDC infosphere and migrate on-prem data to Azure cloud using Blobfuse, Azure Blob, Azure ADLS Gen2, Azure Datafactory V2 for *Ausent services*

### ML Lead (Remote Contract)

#### Forward-Edge.ai

06/2020 - 10/2020

Texas, USA

#### Achievements/Tasks

- Built *Rules engine* python library which will act as a thin flexible ML engine which can be updated regularly as per business requirements to catch keywords in Spam and Scam for predictive analytics
- Built *Model catalog* python software for pulling information from **Azure Databricks, Mlflow, Mlflow model registry** which helps data scientist rollback and version data and ML models efficiently
- Built data pipelines to run and fetch latest news articles related to scams in Azure Data Factory V2 and using publicly available news websites from GDelt project
- Enable **CI/CD** for ML model in Azure Databricks using Azure Devops and Git for single click deployment

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## SKILLS

Python

SQL

Azure Cloud

GIT

Java

Machine Learning

ETL

Analytic Dashboard

## TEACHING

### Data Science Course Instructor - Learnbay (10/2018 - 06/2020) [🔗](#)

- Delivered course content of 104 hours comprising of Introduction to Python, Introduction to Numpy, Scikit-learn, Pandas, Matplotlib, **Introduction to Statistics, Hypothesis testing, Logistic regression, GLM and Introduction to Machine Learning**
- Developed course content for the Data science program in simple and intuitive manner for beginners
- Achieved 95% student satisfaction for explaining complex concepts in simple manner
- Mentored and motivated students by helping them with Resume preparation, Mock interviews, Offline Q&A, Capstone Project
- Sample Video : <https://bit.ly/2NQYuCZ>

## ACHIEVEMENTS

Selected as Google summer of code intern in Openstack, open source cloud computing software. Worked on testing the security vulnerabilities of REST API using open source fuzzing techniques [🔗](#)

Contributed code to an opensource project Openstack [🔗](#)

Active mentor on Codementor with 5 star rating [🔗](#)

## WORK EXPERIENCE

### Senior Software Engineer, ML platform team

Inmobi [↗](#)

11/2018 - 10/2020

#### Achievements/Tasks

- Ported Lookalike Model from Databricks to our ML platform [Sigma]. Enhanced and deployed Lookalike model on Sigma to produce lookalike user segments given a seed set crunching 10 Million UDID
- Developed data pipeline using Java, Hadoop, Hadoop Distributed File System to migrate User Feature Store which contains all the customer UDIDs to Azure cloud. Scheduled data pipeline to run every day so that User Feature Store is updated daily with latest customer information
- Built 5 micro services for in-house ML platform Sigma on cataloguing Input Features, monitoring ML model health for concept & Data drift, Estimating hourly cost for each ML experiment
- Wrote custom **PySpark** transformers in MLeap for sub millisecond model predictions in Prediction Service
- Built micro services using several Azure technology components like **Azure Keyvault, Azure Blob, Azure Mysql server, Azure Event Hub, Azure Databricks, Azure Datafactory**

### Software Engineer, R &D

Justdial Limited

09/2016 - 10/2018

#### Achievements/Tasks

- Designed and built image classification system for Justdial. Using Google Imagenet and tensorflow, retrained Imagenet to classify indian cuisine images. Built front-end using Bootstrap, HTML and JS. Built back-end REST API using Flask
- Worked on justdial bot called Jadoo. Jadoo was built using ChatterBot, Quepy, Dbpedia and Justdial intent classification system. Jadoo can reply to greeting, answer questions from wikipedia and show results using Justdial search

### Research and Development Engineer

Ipsoft Pvt. Limited

08/2014 - 06/2016

#### Achievements/Tasks

- Worked closely with the Data Science team to cater data needs for customer churn project. Evaluated several data stores for storing tera bytes of call detail records. Built data pipelines for different use cases to test accuracy of the customer churn model
- Built UIPS (User Intent Prediction System) that provides recommendation of new web pages based on users browsing history