

MANOJ KUMAR REDDY LAKKIREDDY

Python | ML Ops | Machine Learning | Deep Learning |

Django | PostgreSQL

Tata Consultancy Services

Experience : 5 Years 5 Months

PERSONAL PROFILE

Experienced IT Analyst in charge of designing, developing, deploying and maintaining applications to improve the customer efficiency in term's of time and cost by leveraging technologies like Digital Twin and Machine Learning. Always eager to learn something new and implement it in the projects that I work.

CONTACT



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CERTIFICATIONS

Machine Learning

Coursera | Aug 2018

Deep Learning

Coursera | Jan 2020

WORK EXPERIENCE

Digital Twin | 2021 - 2022

TCS - TwinX | Netherlands Telecom Customer

- TwinX Product Implementation for Customer

Role: ML Ops Engineer

Tech: Python, PostgreSQL, kafka, aws, RHEL

Responsibilities:

- Deploy and monitor the application in aws ec2.
- Monitor s3 bucket scheduled files on daily and process the received files.
- Stream the received data using Apache Kafka for data processing applications.
- Analyze the received data for any data related bugs.
- Maintain uniformity between Backend and Frontend tables data.
- Connect with other teams to understand and implement any changes related to data.

Role: Machine Learning Engineer

Tech: Python, PostgreSQL, pandas, scikit-learn

Responsibilities:

- Implemented Data collection solution by correlating the Build Journey to Digital Journey.
- Worked as ML Engineer in data pre-processing, exploratory data analysis and Feature engineering.
- As a Machine Learning Engineer build several models at various milestone level which give predictions over the Build Journey
 - Budget Risk Predictions
 - Cycle time predictions
 - Fallout Predictions

AI Workbench | 2020

TCS - TwinX

- Developing an application which build models without any coding
- This application is suitable for those who doesn't have programming knowledge but have the domain knowledge.

Role: Machine Learning & Backend Engineer

Tech: Python, Django-restframework, Django ORM, PostgreSQL, pandas, sklearn, celery.

Responsibilities:

- Worked on building Django API's for storing data, data pre-processing, model selections, building models.
- Models are deployed as Flask API's.
- Models are build asynchronously using Django-celery.

LANGUAGES

- Programming
 - Python
 - Java
 - C
- Database
 - PostgreSQL

FRAMEWORKS

- Machine Learning
 - Pandas
 - sklearn
 - tensorflow
 - keras
- NLP
 - RNN
 - LSTM
 - Rasa
- Computer Vision
 - CNN
 - OpenCV
- Backend
 - Django
 - Django-celery
- Automation
 - Selenium

EDUCATION

M.Tech

Information Technology

2014 - 2016

National Institute of Technology Karnataka

B.Tech

Information Technology

2008 -2012

Jawaharlal Nehru Technological University
Vizianagaram

Freshness Tracker | 2019

TCS Innovation Lab - Retail

- A computer vision model to track the freshness and identify shelf life of banana.

Role: Artificial Intelligence Engineer

Tech: Python, Mask-RCNN, resnet50, regressors, Keras, tensorflow, Django-restframework.

Chatbot | 2019

TCS Innovation Lab - Retail

- A PoC on chatbot for apparel selection for different age group, gender.

Role: Artificial Intelligence Engineer

Tech: Python, Rasa, Rasa-nlu

Flight Schedule Advice | 2017 - 2018

TCS | Australian Airways

- An application that process all the event messages generated for each flight from the point of creating to closing the flight.

Role: Automation Tester

Tech: Java, Cucumber, Spring Boot, REST API, ApacheMQ, XML, JSON, AIDX, AWS, Git, Agile.

IRIS | 2016 - 2017

TCS | Australian Airways

- Migration of a complicated multi server application from on-premise environment to AWS.

Role: Automation Tester

Tech: Java, Cucumber, Maven, Sikuli, Apache VFS, aws, Git, Agile.

RESEARCH

Malware analysis using Machine Learning

- Analyzing the presence of malware in the windows system files using machine learning algorithms.
- Improved the speed of detection by 10% on average across the classifiers while retaining 97% accuracy of original models.

Tech: Python, nlp, n-grams, PCA, weka