ADITYA

Data Scientist at Transport corporation of India(TCI)

Website Url:
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HARD SKILLS:

- Machine Learning, Data Science, Python, Web Development, Database, Data Visualization, Creative Problem Solving.

SOFT SKILLS:

- Problem Solving, Critical Thinking, Creative Thinking & Interpersonal Skills.

Experience:

❖ ***Tranport corporation of India (DEC 2018 -Present)***

Role: **Data Scientist**

Technologies: Python ,SQL,Machine Learning Models/DeepNeural Network,MongoDb,ElasticSearc, Graph-Searching

Projects :

- ❖ *Prediction of transit time of a truck using Artifical Neural Network.*
- ❖ *Last Mile Delivery /Pickup (optimized route planning).*
- ❖ Worked with the Audit department for Route card rate analysis.
- ❖ TCI Place API used enter the current location of Truck.
- ❖ RPA Tool to automate manual work and web Scraping.
- ❖ OCR for data collection from Cheque,Pan-card,E-waybill, Lorry RC etc.
- ❖ Chatbot
- ❖ Data collection and preprocessing for different purposes and as per requirment.
- ❖ Qliksense Dashboards

❖ ***Skill lotto solution Pvt Ltd.*** *(July2018 –December2018)*

Role: **Python Developer**

Technologies: Python, JavaScript, Machine learning Models.

Project:

- ❖ Done Predictive analytic on the financial dataset (For Payworld). Regions and customers wise revenue prediction. Analyzing churn customers by their past transaction with company.

❖ ***HCL Technologies, Noida (Intern)*** *(Sept 2017 – March 2018)*

Role: **Intern**

Technologies: SQL, Data Analytics, MS office.

Description: Fetching data from server, Pre-process it and putting into is ISE (code enhancement tool). Project deployment to server.

❖ ***IIT, Delhi*** *(June 2015 – June 2016)*

Role: **Java Developer**

Technologies: Java, JSP, Apache Tomcat, Web Technologies.

Project:

- ❖ Developed an Online Teaching platform for Professors.
- ❖ Involved in developing pages in JSP.
- ❖ Maintaining UI of project.

Education:

YEAR	DEGREE	INSTITUTE	CGPA
2016-18	MTech (Computer Science & Engineering)	Jamia Hamdard, Delhi.	8.3
2011-15	BTech (Computer Science & Engineering)	G.G.S.I.P University, Delhi.	6.9

Technical profile:

- ***Languages/Technologies / Databases:***

Python, JavaScript (ES6), MySQL, Oracle, MongoDB, Elastic Search, RPA Tool, Web Technologies, Power BI,QlikSense,Excel, Stramlit,Big Data Technologies, Pyspark.

- ***Tools / Software / IDEs:***

Eclipse, Anaconda, Tableau, AzureML.

- ***Operating Systems:***

Windows (8, 8.1, 10), Linux (Ubuntu), Android.

- ***Libraries/ frameworks:***

TensorFlow, keras, SciPy, NumPy, Pandas, matplotlib, Hibernate, Flask/Django.

Industry projects (order by latest):

Route Optimization with TomTom and google maps

Problem Statement:
Ceating Route calculation for a Truck (with Multiple Axle) with alternative route with their enroutes calculation of tolls, petrol pumps,RTO etc. Display a dynamic dashboard which provide all routes calcualtion.

Technologies:
Python,Flask,SQL,MongoDB , Rest Apis, Javacript,HTML,Jquery, Bootstrap 4

Prediction of Transit time of a truck(ETA)

Problem statement:-
To predict the Estimate time of arrival of a truck for the Plan management.

Key Points:-
It's one of the concerned and key problem of logistics.
Data cleaning and processing of past 3 years of gps data.
Pyspark for Big data Analytics.
Features engineering and Feature Selection (Parameters) for the model input.
Designing and Tuning Deep neural network (LSTM).
Saving predicted model In HDFS File fomat(Hadoop distributed File syatem).
Regular Presentation directly to M.D (TCI Ltd)

Technologies: Python, SQL, Deep Neural Network.

Multiple Dashboards using Qliksense and Python

Problem statement:-
1. Revenue prediction and Create a Dashboard for the CEOs.
2. Freight-Solution Dashboard.

Key Points:-
Create Revenue Prediction Dashboard by connecting Qliksense with Python.
Freight-solution Dashboard (Muti-modal Freight Dashboard) for overall Group Bussiness Development Head.
Data Collection and wrangling.

Technologies: - Python, SQL, Flask, Big data Analytics, Qliksense, Excel.

Creating Rest APIs using Flask
As per the Requirment

OCR (Object Character Recongnisation)

Problem statement:-
Text-detection from Cheque data (Account No, IFSC, MICR etc.) and other bank related data.
Text-detection from Vahaan Details (Lorry details) from RC pics and Pdfs provided from the field.

Key Points:-

Data Collection from Cloud-Platform (AWS).
Data Pre-processing and cleaning for exact Text.
Image Processing using Tenorflow.
Data Collection and Insert relevant data to the database.
Worked with Semi-Structured Data and Unstructured Data.

Technologies: - Python, SQL, Flask, Big data Analytics, Tensorflow, Neural-Networks.

TCI-Browser

Problem statement:-
Developed a Web-browser for TCI ERP system to secure the Url-link for Security Purposes.

Key Points:-

Chromium Based Web-Search engine.
Integrating with the ERP system.
Pre-defined management requirement for Security.
An exe to run on Field systems (Linux Based).

Technologies: - Python, Chromium, PYQT5.

TCI-Directory

Problem statement:-
Search engine to detect the Caller details at Real-time and display to mobile and web(IVR). For Customer, Suppliers, Vendors and Employees.

Key Points:-

Data collection, Creating Own dataset with number details and validating the Data.
Android app for display at real-time.
Web-Api for the customer Delight locations.
Worked with Structured Data.

Technologies: - Python, SQL, Flask, Big data Analytics, MongoDB.

Last Mile Delivery/Pickup

Problem statement:-
For the optimise distribution of the consignment in inter or intra city network.

Key Points:-
An optimize route planning for the last miles (HUB Or Branch Distribution)
Clustering last mile customers and planning Best route for each cluster with minimum cost Function.

Technologies: Python, Graph-Search, Numpy, Pandas, matplotlib, Scikit-learn, SQL, Machine learning Libraries.

Search-Engine for location Search(TCI Place API)

Problem statement:-
The Purpose of the project is to develop a search engine which used as and alternative to google Place Api which decrease the Dependency on the Google to track live location of a Truck.

Key Points:-
Deal with huge amount of GPS location data which is GBs.
Data Pre-processing and cleaning for exact Geo-code of the location.
Search Engine for the Fast and accurate search of the location with auto-complete facility and Geo-location.
Worked with Structured Data and semi-Structured Data.

Technologies: - Python, SQL, Elastic-Search, MongoDB, Flask, Big data Analytics, web-development Technologies.

RPA TOOL and Python for web-scraping

Problem statement:-
Using RPA tool (Tru-bot) for web-scraping and saving it to database.

Key Points:-
Web scraping from different Travel Websites for Travelling Rate Purposes using RPA Tool.
Used Python where RPA tool is not working.
API for data insert to database.

Technologies: - Python, SQL, Flask, Big data Analytics, Beautiful-Soup, Scrapy, web-development Technologies.

Churn customers analysis and Financial Data Analysis for Payworld (division of group):

Problem statement:-
Churn customer analysis and Credit analysis.

Key Points:-
Detection the churn or about to churn customers of the Payworld.
Data collection and Pre-proocessing.
Financial Data Analytics.

Technologies: - Python, matplotlib, Pandas, Numpy.

Online Teaching Platform:

Problem statement:-
Developing an Online Platform for the professor of IIT Delhi.

Key Points:-
Application development using Java.
Contributing in all phases of the development lifecycle.
Writing well-designed, efficient, and testable code.
Managing Java and Java EE application development.
Maintaining UI of project.

Technologies:-Java, web-development Technologies.

Other projects:

My own website hosted at Heroku:

Please visit my website at https://aditya0025.herokuapp.com/ for check-out my work and Experience.

YouTube Video Comment Analysis

YouTube video subtitle and comments are downloaded using YouTube API and converted into csv format and after using the NLP (NLTK) analyse the similarity between YouTube video comments and videos subtitles. Code is provided to Github repository (above mentioned).

Rainfall Prediction using Deep Neural Network (PG Major Project)

Data pre-processing & apply neural network for predicting the weather. Dataset used from official website of Indian government.
Technologies: Python, Spyder (IDE). Libraries: NumPy, matplotlib, Scikit learn, pandas, keras etc.

Courses & certificates:

- **Financial Risk Analytics** Certification from Great-learning.
- **Core JAVA** Certification from National Institute of Electronics and Information Technology (Nielit).
- Hcl technologies Certification on **.Net**.
- **Digital Image Processing** Certification from Great-learning.
- **Fundamental of Data Processing** Certification from LEAPS.
- **Hadoop: MapReduce** Certification from Great-learning.
- **Machine-Learning Foundation** Certification from Great-learning.
- **HTML-CSS** Certification from Codecadmey.
- **BlockChain Basics** Certification from Great-learning.
- **Microsoft Azure Essentials** Certification from Great-learning.

Extra-Language Certification:

- French A1 level Certification from IIT Delhi.

Extracurricular activities:

- Social Work: Worked with social organization Trishakti charitable trust, which provides primary education to street children in Delhi.
- Hobbies: Gym and Travelling to the location and exploring different cultures.