



# Rahul R

Data scientist

Astute Data Scientist familiar with gathering, cleaning and organizing data for use by technical and non-technical personnel. Advanced understanding of statistical, algebraic and other analytical techniques. Communicates clearly with stakeholders and builds consensus around well-founded models. Highly organized, motivated and diligent person, eager to bring expertise to growing organization in a challenging role. *"It's never too late or too soon"*

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## KEY COMPETENCIES

Python

R

Scikit-learn

Tensorflow

Django

CNN

APIs

Pytorch

Pandas

MLOps



## TECHNICAL SKILLS

**Machine Learning** Regression Techniques (Linear Regression, multivariate regression), Classification Techniques (Logistic Regression, Naive Bayes Classifier, Decision Trees, SVM, Nearest Neighbor), Clustering (K-Means)

**Ensemble Methods** Bagging, Boosting

**Natural Language Processing** TFIDF, Stemming, Lemmatization, Bag-of-words, Word2vec

**Deep Learning** CNNs, RNNs, GANs

**Programming Languages** Python, R

**DL Frameworks** TensorFlow

**Cloud Platform** AWS, Azure

**Web Frameworks and APIs** Django, Flask, REST APIs

**Software Tools** Anaconda, Jupyter Notebook, Spyder, Git, GitHub, Docker

**Operating Systems** Windows, Linux (Ubuntu, Debian)



## WORK EXPERIENCE

### Data scientist

Volvo Trucks India

📅 May 2021 – Present

Bangalore, India

#### Responsibilities/Tasks

- Responsible for creating and deploying end-to-end Machine Learning & Deep Learning applications for various business problems.
- Worked on sophisticated **versioning and provisioning** tools to create **CI/CD** pipelines including **GitHub, Git, Docker, Kubernetes, Jenkins, Ansible**, and other cloud services for seamless integration and delivery.
- Collaborated with internal stakeholders on providing **IoT** solutions through the **telematics gateway** for the fleet management system and **uptime services**.



## PROJECTS

### (FES) Fuel Efficiency services, Volvo Trucks


📅 May 2021 – Dec 2022


🔧 PyTorch, pandas, numpy, sql, python, Docker, Linux

- **Objective:** To scale up the fuel efficiency of off-road mining trucks significantly by predicting the parameters that influence FE drastically and to create a detailed analytics dashboard from the vehicle data.

- Used Machine Learning models KNN, xgboost, RandomForest to get the highly correlating parameters that contribute Fuel efficiency.
- My tasks also encompass EDA, data cleaning, clustering model building, and deploying.
- Deployed using containerization technology.

### Fleet assistance services, Volvo Trucks


 Nov 2021 – Dec 2022

 PyTorch, pandas, numpy, sql, python,

- **Objective:** To automate the process of counting the trips and recommending excavators at the mining region and to continuously track the geolocation of trucks using a monitoring device for trip summary.
- Through this, we ensure to gather the data from the truck and send the data packets to the cloud.
- Distance-based algorithms have been incorporated to recommend the best scoring vehicle.
- Created a pipeline for deploying the source code into the server.

### Parts object detection, Volvo Trucks

 In Progress

 Tensorflow, pandas, Keras, python, jenkins, Kubernetes

- **Objective:** Worked on fleet analytics for an object detection deep learning model creating a dashboard for segregating the parts and activities.
- Working on a project where we have to create a classification engine of parts images to bring down the failures and plan maintenance schedule.
- Building a CI/CD pipeline using Jenkins server for automating the deployment process.



## CERTIFICATES

Custom Models, Layers, and Loss Functions with TensorFlow (10/2021 - 10/2021)

*object detection, image segmentation, Functional API and non-sequential models*

Cloud computing using AWS (04/2021 - 04/2021)

*EC2 instance, VPC in AWS cloud*

Post graduate program in Analytics and Artificial intelligence (03/2021 - 03/2022)

Analyzing and Visualizing Data with Microsoft Power BI (11/2020 - 11/2020)



## EDUCATION

### Post Graduate Program in Analytics and Artificial Intelligence

Imarticus Learning

05/2020 - 03/2021,

Chennai, India

### Master's in Mechatronics

Sri Venkateswara College of Engineering

07/2018 - 04/2020,

Chennai, India

### Bachelor's in Mechanical

Rajalakshmi Institute of Technology

08/2014 - 03/2018,

Chennai, India