

# P. DATTATRAY

Machine Learning  
Engineer.

## PROFESSIONAL PROFILE

Professional with Analytical and Inquisitive mind having 3.5 years of exp in providing industry leading solution for complex real world ML Problems giving business a cutting edge advantage.

## SKILLS

- Python-ML Packages :  
NumPy, Pandas, Sci-py, Scikit-learn, Seaborn, Matplotlib.

- Machine learning:  
Linear Regression, Ridge & Lasso Regression, Logistic Regression, Naïve Bayes Classifier, k Nearest Neighbor's Classifier, Support Vector Machine, Decision Tree, Random Forest, Gradient Descent, Ada-Boost, Gradient Boosting, K-means Clustering.

- Python-DL Packages :  
Tensorflow, Keras , OpenCV (Computer Vision)

- Deep Learning:  
Artificial Neural Network, Convolutional Neural Network, Transfer Learning , Feature Extraction , Fine Tuning , Image operation, Image Segmentation , Image Analysis and Transformation , Object Detection

- Natural Language Processing

- Languages: Python , SQL

- Operating System: Windows , linux

## EDUCATION

Bachelor of Engineering |  
First Class with Distinction

HSC | 81 %

SSC | 91 %

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## Experience :

Company: Tricon Infotech. From: April 2020 - Till Date

## PROJECT SUMMERY

### 1. Project: Optimize customer reachout process to sell insurance policy.

**Description:** Many insurance worker spend a lot of their time having meeting with prospective client without knowing the probability of that customer to buy the insurance product. Using machine learning to predict whether a customer is interested or not in insurance optimizes reachout process.

**Outcome:** Machine learning could predict whether a customer would be interested or not towards vehicle insurance product with recall 0.965 out of 1

#### Roles and Responsibilities:

- Performed data cleaning using various python libraries such as Numpy, Pandas.
- Performed analysis to access the quality of data, determine the meaning of data, provide the data facts and insights using visualization tools such as Seaborn and Matplotlib.

### 2. Project: Automating loan approval process by machine learning.

**Description:** Building a model to ensure that loanee capable of repayment should not get rejected and correct prediction of capable loanee will maximize profit by minimizing underwriting process.

**Outcome:** Model augmented client capacity by saving man hours and increasing profit by 7.5 %

#### Roles and Responsibilities:

- Select and apply appropriate algorithm and evaluate the built model to enhance performance by hyperparameter tuning.
- Performed data cleaning, data visualization, feature engineering using python libraries such as Numpy, Pandas, Matplotlib, Seaborn.

### 3. Project: Driver Drowsiness Detection System

**Description:** Building a drowsiness detection system that will detect a persons eye are closed for a few seconds. This system will alert the driver when drowsiness is detected.

**Outcome:** Vehicle safety rating get improved due to enhancement of this feature.

#### Roles and Responsibilities:

- Performed image preprocessing for extraction of features and building a CNN model to detect drowsiness.
- Understanding client problem with provided data and define approach that needed for further analysis.
- Communicating with client by organising meets sharing insightful information with all stakeholders.