



# Rajat Agarwaal

Data Scientist

**Skilled Data Scientist with 2.5 years of experience executing data driven solutions to increase efficiency, accuracy and utility of internal data processing. Experienced at creating regression models, classification models using predictive modelling, Computer Vision and analyzing data mining algorithms to deliver insights and implement action oriented solutions to complex business problems.**

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📅 30 March, 1994

## WORK EXPERIENCE

### Machine Learning Engineer AgEYE Technologies

01/2021 - Present

Bangalore, India

Achievements/Tasks

- Undertaking data collection, preprocessing and analysis
- Building models to address business problems
- Propose solutions and strategies to business challenges
- Worked on Machine Learning, Python and Computer Vision

### Decision Science Analytics Intern NiYO Solutions

12/2019 - 06/2020

Bangalore, India

Achievements/Tasks

- Built machine learning solutions to solve important business problems
- Worked with Data Scientists and Engineers to deploy solutions to a production environment
- Collaborated with business leaders, subject matter experts, and decision makers to develop success criteria and optimize new products, features and models
- Communicated key results to senior management in verbal, visual, and written media

### Engineer

#### Ericsson Global India Pvt. Ltd.

10/2016 - 04/2018

Noida, Uttar Pradesh

Achievements/Tasks

- Built predictive models helpful to gain business insights to take important business decisions
- Applied ML techniques on the Telecom Customers data so to get a deeper understanding of the customers behavior and using those insights to improve the products and offerings by the company to its customers
- Worked on Python, ECMS, Machine Learning and SQL

## EDUCATION

### M. Tech in Data Science and Business Analytics Narsee Monjee Institute of Management Studies (NMIMS)

07/2018 - 07/2020

Mumbai, Maharashtra

### B. Tech in Computer Science and Engineering Amity University

07/2012 - 07/2016

Greater Noida, Uttar Pradesh

## SKILLS

Python

C

Machine Learning

Deep Learning

Computer Vision

Natural Language Processing

SQL

Pig

Hive

Basics of HDFS

Statistical Analysis

Gitlab

Tableau

## PROJECTS

### Instance and Semantic Segmentation Using UNET (04/2021 - Present)

- The task is to categorize the multiple plants in the same image using Instance Segmentation
- Also, Edge detection was performed on Leaf Edges of Basil and Lettuce plants so as to get the plant area and the leaf count, this task is also performed using UNET as it was giving the good results

### Basil, Lettuce and Hemp Image Classification (03/2021 - 03/2021)

- Here the task was to identify which plant is in the image
- By doing so, the corresponding pipeline of actions will be triggered so as to get the tasks done, this is also a part of the product being developed for the farmers
- This task is accomplished with 95% accuracy using Custom CNN Architecture

### Classification and Regression Models on the Multiple Plants Data (02/2021 - 03/2021)

- Here the task was to predict plant parameters like Stem Girth, Plant Height, Fresh Weight, Dry Weight and Leaf Count using previous data
- The above regression tasks were achieved successfully with an Adjusted R-Squared value of 0.98
- Another task was to classify between Basil and Lettuce Classes based on the numerical data collected, this task was successfully done with an accuracy of 94% using Stacking

### Customer Churn Analysis for Salary Advance Product and Segmentation Model for Targeted Marketing (01/2020 - 04/2020)

- Objective was to identify factors leading to Customer Churning. The aim was to predict whether the NiYO Bharat Customer will churn or not in future, the task was accomplished with an accuracy of 91% using Random Forests
- The utility of Customer Segmentation project is for the Marketing Team who wanted to launch a Targeted and Marketing Campaign by dividing the Customers into four distinct segments, this task was achieved with a good Silhouette Score of 0.87

## ACHIEVEMENTS

TCS iON ProCert "Analytics" Certified

Gold Badge for both Python and Sql on Hacker Rank