

# Nishkarsh Singh

Data Scientist

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## SUMMARY

A **3 years experienced** professional skilled in Python, Pandas, SK Learn and Keras and armed with **Post Graduate Diploma in Data Science from IIIT-B**, looking for suitable assignment to have a fulfilling career in artificial intelligence by taking up challenges and to bring high value to the organization through application of machine learning to help business take most suitable decisions and deploy most relevant solutions.

## CORE SKILLS

**MACHINE LEARNING & PREDICTIVE MODELLING** - Linear Regression, Logistic Regression, Decision Tree, Principal Component Analysis, K Means, k-NN, Hierarchical, Ridge & Lasso Regression, Random Forest, AdaBoost, XgBoost, Pandas, NumPy, Matplotlib, SeaBorn, SciKit-Learn, StatsModels

**DEEP LEARNING & NEURAL NETWORKS** - Knowledge of MLP, CNN, RNN, LSTM, GRU and Transfer Learning, Keras, SciPy, TensorFlow

**SQL & BIGDATA ANALYTICS** - Advanced SQL using MySQL including Geospatial Analysis, BigData Analysis using HIVE

## WORK EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS

Jan 2018 - Present

Programmer Analyst

- **Customer Segmentation** by calculating **Recency Frequency & Monetary** values and applying clustering to find different customer groups
- Calculate and find **Customer Lifetime Value** to identify behavior patterns, segment customers who reduce profitability and act accordingly
- Predict **customer churn** to identify various techniques and offers for different segments to **increase customer retention**
- Predict **next purchase date** to build a strategy on top of that result and come up with tactical actions for customer near purchase date
- Perform **sales prediction** to find incremental value of our new actions, plan demand and supply, budgets and targets.
- Providing data driven solutions to client for better attraction of customers toward underperforming brand or category
- Be able to build and use segmentations, summative analyses, and **predictive modelling** to deliver solutions to client challenges
- Perform analysis using client data to solve analytic problems related to client's business

## EDUCATION

INTERNATIONAL INSTITUTE OF INFORMATION TECHNOLOGY, BANGALORE (IIIT - B)

2019 - 2020

Post Graduate Diploma in Data Science

GALGOTIAS COLLEGE ENGINEERING & TECHNOLOGY, NOIDA

2013 - 2017

B. Tech. - Computer Science & Engineering

## PROJECTS

### 1. TELECOM CHURN CLASSIFICATION | INDUSTRY - TELECOM | Tech Stack: Python, Jupyter Notebook

- **Objective:** To identify customers at high risk of churn via customer-level data analysis for a leading telecom firm
- **Solution:** Built predictive models via Logistic Regression, SVM & Random Forests to identify high risk customers
- **Key Achievement:** Designed the LogReg model with **AUC score of 0.88, Sensitivity 0.8, Specificity 0.83 & Accuracy 0.82**

## 2. HAND GESTURE RECOGNITION | DOMAIN- DEEP LEARNING

- *Objective:* To develop a cool feature to control smart-TV using five different hand gestures
- *Solution:* Implemented two models one using Conv3D(4layers) & other (CNN Conv2D + RNN models)
- *Key Achievement:* Achieved best **Accuracy of 0.86** for **Conv2D+RNN** model & **Accuracy of 0.72** for **Conv3D** model

## 3. NY CITY TAXI & LIMOUSINE COMMISSION (TLC) STUDY | INDUSTRY – TRANSPORT | HIVE | Big Data | Data Ingestion & Processing

- *Objective:* To get better understanding of the taxi system so as to improve the efficiency of in-city commutes
- *Solution:* Deployed Hive tables and analyzed the various parameters & the correlation between them
- *Key Achievement:* Helped analyze and improve the efficiency of commutes

## 4. HELP INTERNATIONAL NGO PROBLEM

- *Objective:* Identify countries which need the most focus so that the NGO can spend \$10 Million strategically and effectively.
- *Solution:* Grouped countries by categorizing on basis of socio-economic and health factors to provide a list
- *Key Achievement:* Provided a list of 15 countries in dire need of help by applying classification model

## 5. SURPRISE HOUSING – HOUSE PRICE PREDICTION | INDUSTRY – REAL ESTATE

- *Objective:* Predict the actual value of the prospective properties and decide whether to invest in them or not.
- *Solution:* Implemented multiple predictive models to identify which variables are significant in predicting the price of a house, and how well those variables describe the price of a house
- *Key Achievement:* Developed L2 Regression model which achieved an **accuracy of 89%**

## STRENGTHS

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- Communicating: Communication Skills.
- Flexibility and Adaptability.
- Learning agility: Quick learner.
- Tolerance: Stress tolerance.
- Critical thinking: Decision making skills.

