

AANCHAL GUPTA

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<https://github.com/Aanchal-eng/ML-DL-Projects.git>

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Professional Summary

- Professional with 2 years of experience as Data Scientist/Analyst in IT industry. Experienced in Machine Learning, Computer Vision and Applied Statistics techniques.
- Involved in End-to-End implementation of Machine Learning /Deep Learning models.
- Translate product requirements into analytical requirements/specification, design and develop required functionality.
- Worked on various tools like MS Excel, Python, Tableau and SQL.
- Good exposure in Deployment of projects in GCP, AWS Elastic beanstalk and Heroku platform.

Skill Set

Analytics Techniques- Market Segmentation (Cluster & Factor Analysis), Multivariate Regression Analysis (Linear & Logistic), Decision Tree & Time Series Analysis (ARIMA, Exponential Smoothing), Hypothesis Testing, Statistical Test (Z/t-test, Anova, Chi-square & correlations), RNN, Neural Networks, CNN, Sentiment Analysis, NLP (BERT, GPT2/3)

Technical Skills- Python, SQL, Advanced excel

Professional Experience:

Nityo Infotech, Noida

Oct'18 to Mar'21

Role: Data Scientist

- Helping clients with different quantitative analysis and supporting respective stake holders with different data analysis using tools like Excel, Tableau and Python.
- Prepared performance reports on monthly & quarterly. Most of these reports automated using tools like Python.
- Working on client proposals, RFP's and presentations business development.

Projects-

Automatic Alarm Alert System

Basically, this project is based on warehouse domain, when workers try to push the Garbage inside Schladler machine sometimes their hands used to Crush down so in order to avoid such kind of accidents we have created a vision-based solution for them.

Technology- Faster_rcnn_inceptionV2_coco, TFOD Framework, labeling tool, Raspberry Pi

Employee Attrition Analysis

Worked on research projects on Predictive Modeling solving a set of business problems as apart of moving from heuristics to scientific methods of solving those problems

Built Employee Attrition Classification Model to find the possible cause for an employee to quit or stay in the company

Worked on Employee Persona Analysis based on various KPIs.

Technology- Naïve Bayes, SVC, Logistic Regression, KNN, Sommer's D, VIF, AUC

Credit Card Customer Segmentation

Worked on Unsupervised business problem to define the different segments of customers.

Define marketing strategy by developing a customer segmentation profile based on service usage by the customers

o Clustering: Apply a data reduction technique PCA by variable reduction technique and k-means clustering algorithm to reveal the behavioral segments of credit card holders

Technology- KMeans, PCA, DBSCAN, Silhouette Score

Automated Parking System

Used SSD Mobile net technique to build and train model, that helps Parking Owner to get the correct information about how many vehicles come inside the parking spots and for how much time the car stays inside the parking in order to avoid any losses.

Technology- SSD_mobilenet_inceptionv2_coco, YOLO V4, Deep sort tracking, POSTMAN API, Google vision API

Default Customer Prediction

One of the leading banks would like to predict bad customer while customer applying for loan. Solved the problem using various supervised ML techniques.

Technology- Naïve Bayes, SVC, Logistic Regression, KNN, Sommer's D, VIF, AUC

Analyst**Oct'17 to Oct'18**

Prepared detailed dashboards & report using Excel, Python and Tableau for monitoring the performance of the team.

Manage the monthly reports and ad-hoc data analysis for leading US clients.

Help the team with proposals and business presentations

Academic Project**Customer Face Mask Detection**

Built a model trained in TFOD platform, to detect whether a person wear Face mask or not.

Education

Bachelors in Information Technology from GBTU

