

# Ankita Dutta Gupta

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## MY PROJECTS

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### TWITTER SENTIMENT ANALYSIS using NLP ~

- Performed sentiment analysis and prediction on tweets of South X SouthWest fest of 2011,Austin
- Analysed the most trending tweets and derived insights behind them
- Classified the tweets into classes of negative positive, neutral and undetermined, achieved a weighted F1 score of 0.65.

### HAPTIK CHATBOT ANALYSIS

#### PART I~

- Model predicts the class of the chat messages it receives from the customers.
- Models like logistic regression, multinomial naive bayes and linear SVM used.
- Used Gensim for topic modelling techniques like LSA, LDA
- Evaluation metric used is perplexity and coherence score.

#### PART:II~

- Built a Multi-label classifier with problem transformation methods like Binary relevance , Pairwise and Labelpowerset.
- Binary Relevance implemented using OneVsRestClassifier with LinearSVC, subset accuracy =74%
- RandomForest subset accuracy of 71.45%
- Label Powerset with linearSVC, subset accuracy 80.51%

### FINANCIAL DELINQUENCY PREDICTION ~

- Predicted the probability of a customer defaulting based on their expenditure pattern and credit history, categorizing them as a high risk or low risk loan borrower .
- Models like Gradient Boosting, Random forest , Logistic regression used.
- Inputs like debt ratio, monthly income, no. of realestate lines considered ,achieving AUC\_ROC score of 0.84.

### CREDIT CONSUMPTION PREDICTION~

- Predicted the average credit card consumption for the next three months of the customers of a bank.
- Model considers the spending patterns of a customer over the past 3 months along with other features for prediction.
- RMSLE score used as a metric to assess model performance.

## TECHNICAL SKILLS:

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- Scripting- Proficient in Python
- Data Visualisation | Data Analysis - NumPy, Pandas, Sklearn, Matplotlib,Plotly,Folium
- Proficient in Machine Learning
- Beginner in NLP
- Tableau | Git | Jupyter | Microsoft Excel

## EDUCATION

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### GreyAtom School of Data Science

Professional Degree Course

Coursework: Analysis; Predictive Modelling; Text & Sentiment analysis,Machine Learning

Mumbai

July 2020

### RN Shetty Institute Of Technology(Affi. to Visvesvaraya Technological University)

B.E. in Electrical and Electronics Engineering(7.1 cgpa)

Bengaluru

Jan 2020

### Holy Cross S.S. School (CBSE) XII -79% (PCM) , X- 10.00 CGPA

May 2015, Raipur, CG

## INTERNSHIPS

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V I Solutions (Advanced communication, real time embedded systems service provider)

Bengaluru

*Student Intern*

*Jul 2018*

- Trained on various aspects of Software LabVIEW, Designed a semiconductor automated test equipment using NI ELVIS II+ platform to generate static characteristics of a variety of semiconductors.

**Vedanta Limited** (*Aluminium producer company*)

*Bhubaneswar*

*Student Intern*

*Feb 2018*

- Worked under the Head Electrical Department of the Captive Power Plant with detailed study of Commercial Generator Protection Systems and generated interactive reports on the same.

## **ADDITIONAL**

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**Languages:** English, Hindi, Bengali

**Competitions :**

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| 03/2020 | 2nd place in Credit Consumption Prediction Hackathon, Greyatom |
| 06/2020 | 2nd place in Sentiment Analysis Hackathon, Greyatom            |