Rankit Agarwal

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EXPERIENCE

Cygnet Infotech, Ahmedabad— *Software Engineer*

July 2018 - PRESENT

- **NARMS**: (***Swift, Cocoa pods***)
  - Surveillance App to keep track of food quality which shows store locations to collect food samples.
  - It can schedule surveillance tasks as well.
- **FleetFare**: (***Swift, Cocoa pods***)
  - Cab booking application for both riders and drivers.
  - The routing path is displayed at the start of the journey with driver and rider's locations.
  - It will generate a receipt and option to pay online through paypal at the end.
- **iReport Enterprise**: (***Swift, Objective C, Cocoa pods***)
  - Mobile service and sales app to create reports and do paperwork on the spot.
  - Users can fill timesheets, create reports, invoices, plan to-dos and plan itinerary for upcoming visits.
  - Inventory management with data import/export interfaces with CSV, XML, FTP.
  - Barcode/QR code scanning facility for users for easy product scanning and tracking.

Cygnet Infotech, Ahmedabad — *Internship*

January 2018 - June 2018

- Worked on a chat bot for HR tools entitled "Project Management Chat bot"
- Employees can query details regarding their projects, team mates, general query and get answers quickly.
- It was integrated with ***LUIS as NLP and in C#***.

PERSONAL PROJECTS

- **Quora Question-Pair Similarity** (***Python, Sklearn, NLTK, Fuzzy Wuzzy, WordCloud***) [**Github**]
  - Objective was to check if the given pair of questions is duplicate or not.
  - EDA for number of common words, stop words etc.
  - Performed feature engineering with Tf-Idf Featurization, Bag of words, Fuzz ratio, word_share, Common Words, token ratio, stop words ratio etc.
  - Compared the performance of classification models (***Logistic Regression, Linear SVM, XGBoost***).
- **Personalized Cancer Diagnosis:** (***Python, Sklearn, NLTK, lightGBM, WordCloud, MLExtend***)[**Github**]
  - Worked on "Memorial Sloan Kettering Cancer dataset" for classification of the cancer types (9 different classes) using features from extracted genetic mutation.
  - EDA to check class distribution of class labels. Preprocessing for features

SKILLS

Machine Learning

Statistic and Probability

Deep Learning

Mobile App Development

PROGRAMMING

Python, Swift, ObjectiveC, C# (basics)

SQLite, SQLServer, MySql

Basic knowledge of HTML, CSS web development

LANGUAGES

Hindi, English, Gujarati.

using NLTK
    - Featurization using response coding, One hot encoding, BoW.
    - Created model using ***Naive bayes, KNN, Logistic regression, Stacked (Lr, SVC, RF), Voting Classifiers.***

- **Stackoverflow Tag Prediction:** ***(Python, Sklearn, NLTK, vectorization, lightGBM, Matplotlib, WordCloud, MLExtend)*** **[Github]**
    - Main objective was to suggest tags based on the content of questions posted on Stackoverflow.
    - EDA for number of unique tags, avg tags per question, Most frequent tags, top tags etc.
    - Featurization with TF-IDF vectorization and preprocessing for HTML tag removing, stop words removing, stemming, removing special characters etc NLTK preprocessing.
    - For multi-label problems we used One vs rest approach with logistic regression.

- **Donor Choose Dataset:** ***(Python, Sklearn, Scipy, NLTK, lightGBM, WordCloud etc.)***
    - Wrote an algorithm for automated selection of applicants who will be provided the funding based on their project proposal.
    - Analysis of individual features for their variance ,distributions etc and removed stopwords,Special characters etc unnecessary texts in preprocessing
    - Featurization using TF-IDF ,Word2vec, BoW for text based features and for categorical features used One hot encoding,Response coding etc.
    - Comparison of different Models like Naive bayse ,Logistic regression, Decision tree, GBDT etc.

EDUCATION

Bachelors of Engineering, *Computer Engineering.*

Gujarat Technological University
June 2014 - June 2018

Higher Secondary Education

Gujarat Higher Secondary Education Board
June 2012 - May 2014

Secondary Education

Gujarat Secondary Education Board
July 2012

COURSES

- Coursera Machine Learning course by stanford university.
- Applied AI Machine Learning course (On going).
- Udemy courses for Data science and Tensorflow using Keras API (On Going).