

Rankit Agarwal

Software Engineer

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EXPERIENCE

Cygnnet Infotech, Ahmedabad — *Software Engineer*

July 2018 - PRESENT

- **iReport Enterprise:** (*Swift, Objective C, Cocoa-pods*)
 - Mobile service and sales app to create reports and do paperwork on the spot.
 - Users can create Reports, Invoices in any UI design as a user wants. And User can track all information in respective map views and from listing.
 - Users can also plan to-dos, Create upcoming itineraries and visits, In-App purchases, Invoice Payment tracking.
 - Inventory management when reports or invoices are created.
 - Maps to display companies, employees, headquarters, etc information.
 - Also having core data to manage application offline and sync when the server connected
- **Inventory:** (*Swift, Objective C, Cocoa-pods*)
 - Inventory management like Products ,Lists etc. data import/export interfaces with CSV, XML, FTP, server ,etc.
 - Barcode/QR code scanning facility for users for easy product scanning and tracking in any order.
 - Also having options to creating/print PDFs and sharing their options.
 - Managing offline support with coredata.
- **Fuel Finder:** (*Swift, Cocoa-pods*)
 - Mobile app to find all Marine Gas station locations and also find nearest Gas station based on location.
 - Showing all contact information related to Gas stations.

Cygnnet Infotech, Ahmedabad — *Internship*

January 2018 - June 2018

- Worked on a chatbot for HR tools entitled “Project Management Chatbot”
- Employees can query details regarding their projects, teammates, general query and get answers quickly.
- It was integrated with *LUIS as NLP and in C#*.

PERSONAL PROJECTS

- **Walmart-StoreSalesForecasting** (*Python, Sklearn, HolidayPackage*)
[[Github](#)][[Demo](#)][[Blog](#)]
 - We had given Historical sales data for 45 Walmart stores located in different regions. Each store contains many departments, and our task was to find the sales for each department in each store.
 - EDA for a feature impacts sales on Holidays in the US(e.g. Christmas, Thanksgiving, etc) and to check holidays weeks impact on sales
 - Compared the performance of classification models (*Linear Regression, Decision Tree Regressor, RandomForest, XGBoost*).
 - Get in the top 10% on the leaderboard in kaggle.

SKILLS

PROGRAMMING

Python, Swift, Objective-C

MACHINE LEARNING

k-Nearest Neighbours
Linear Models
Support Vector Machine
Naive Bayes
Decision Trees
Ensemble Models
Clustering algorithms
Recommendation System

DEEP LEARNING

Tensorflow & Keras
CNN, LSTM, and RNN
Encoder-Decoder Models
Basic of Attention
Models and BERT
Basic of Image
Segmentation YOLOv3

LANGUAGES

Hindi, English, Gujarati.

- **Quora Question-Pair Similarity** (*Python, Sklearn, NLTK, Fuzzy Wuzzy, WordCloud*) [[Github](#)]
 - The objective was to check if the given pair of questions is duplicate or not.
 - EDA for a 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 the “Memorial Sloan Kettering Cancer dataset” for classification of the cancer types (9 different classes) using features from an extracted genetic mutation.
 - EDA to check the class distribution of class labels. Preprocessing for features using NLTK
 - Featurization using response coding, One hot encoding, BoW.
 - Created model using *Naive Bayes, KNN, Logistic regression, Stacked (Lr, SVC, RF), Voting Classifiers*.
- **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 Bayes, 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 (Ongoing).
- Udemy courses for Data science and Tensorflow using Keras API.