

PARTH PARIKH

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EDUCATION

Rajiv Gandhi Institute of Technology, Mumbai

2017 - Present

Bachelor in Engineering

Department of Computer Engineering

CGPA - 8.58

PROJECTS

Popup Encyclopedia

May 2019 - Present

A browser extension aimed to provide word meanings on double-clicking a word. Designed it to work fully offline with support for word-lemmatization. Optimized it to perform faster than state-of-the-art software like Google Dictionary.

Crossword-Solver

December 2019

Designed a class to guess clues using databases like Wordnet, Moby's thesaurus and Gensim's glove-wiki-gigaword-100. An implementation based on Z3 Theorem Prover (SMT solver) was developed to position the guesses on the crossword-board.

Movie Recommendation System

September 2019 - November 2019

Developed a movie recommendation engine using content-based and collaborative filtering approaches with a hybrid recommender system optimizing their recommendations. Implemented machine learning approaches like KNNBaseline and Cosine Similarity. Curated [The Indian Movie Database\(TIMDB\)](#), the largest database available for Indian movies, with over 4500 titles released between 1950 and 2019.

Pizza Delivery Chatbot

March 2019

Conceptualized and developed a parser with support for universals, generic responses, sentiment analysis, and curse-word detection. Analyzed customer priority using KNN, hand-curated core datasets and added support for various customer-analytics using SQLite.

This project secured an Honourable mention in DBIT hackathon.

Search Engine

July 2018

Designed a web-crawler using Scrapy, performed word refining using NLTK and indexing using an Inverted Index. Added auto-completion using Tries and *did you mean* feature by analyzing Levenshtein distance between words. Implemented retrieval and error detection in Flask and ranking using Tf-Idf.

MINOR PROJECTS

- Designed a **Branch Target Buffer** for Computer Organization and Arch. Lab. *April 2019*
- Developed a **progressive-web-app/website** to provide news in rural areas. With low request sizes and fast loading time, the site was optimized for low bandwidth connections. *July 2019*
- Developed a feature-rich **URL shortening service** with support for duplicate link verification, auto expiry of URL, custom URLs, and spam detection. Designed a spam detection library using mmh3 and bitarrays. *February 2019*
- Designed a news-aggregator based toolkit in Django which parsed RSS feed, found breaking news from them (both categorically and non categorically), performed summary scraping and retrieved stocks from BSE, NASDAQ, and NSE. *November 2018 - June 2019*
- Created an AI-based Tic-Tac-Toe game using the Minimax algorithm. *February 2018*

TECHNICAL SKILLS

Programming Languages

Libraries

Software Skills

Web Technologies

Proficient in Python, C; Prior experience in Java, Bash, Octave

Django, Flask, Scrapy, NLTK, Tkinter, Scikit-learn

MySQL, SQLite, Octave, Markdown, Git, L^AT_EX, AutoCAD

Javascript, HTML, CSS