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 softwares like Google Dictionary.

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.

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 a 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.

URL Shortening Service   *February 2019*
Developed a feature rich URL shortener with support for duplicate link verification, auto expiry of URL, custom URLs and spam detection. Designed a spam detection library using mmh3 and bitarrays.

OTHER 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*

- 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 Minimax algorithm.   *February 2018*

TECHNICAL SKILLS

Programming Languages	Fluent in C, Python; Familiar with Scheme, Java, Bash
Libraries	Django, Flask, Scrapy, NLTK, Tkinter
Software Skills	MySQL, SQLite, Octave, Markdown, Git, LaTeX, AutoCAD
Web Technologies	Javascript, HTML, CSS