PARTH PARIKH

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EDUCATION

Rajiv Gandhi Institute of Technology, Mumbai *2017 - Present*
Bachelor in Engineering
Department of Computer Engineering *CGPA - 8.25*

INTERESTS

Text Analysis, Cryptographic Functions, Algorithms, Discrete Mathematics

PROJECTS

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.

Search Engine *July 2018*

- Designed a web-crawler using Scrapy, performed word refining using NLTK and indexing using an Inverted Index.
- Added auto-complete feature using Tries and 'did you mean' feature by analyzing Levenshtein distance between words.
- Implemented retrieval and error detection using 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.

ONGOING PROJECTS

- Researching on Branch Prediction and trying to implement a Tournament Branch Predictor for Computer Organization and Architecture Lab.
- Designing a Markdown to HTML parser for blog automation, with features like grammar detection and spell detection.

OTHER PROJECTS

- Designed a news-aggregator based toolkit 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*
- 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	Flask, Scrapy, NLTK, Tkinter
Software Skills	SQLite, Octave, Markdown, Git, LaTeX, AutoCAD
Web Technologies	HTML, CSS