

Prakash R

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TECHNICAL SKILLS

Experienced : R, Python , MySQL

Intermediate : C, HTML, CSS

Relevant Coursework : Data Structure and Algorithm, Computer Architecture, Natural Language Processing, Operating System

EDUCATION

IIT Gandhinagar, Gandhinagar, India

Jul 2017 – Present

- Cumulative Performance Index of 8.87/10
- Bachelor of Technology in Electrical Engineering with Minor in Computer Science
- Anticipated date of graduation : May 2021

WORK EXPERIENCE

Data Analysis of MPT Exam , University of Saskatchewan

Summer 2019

- Identified and removed the careless responses in the data using time and response analysis.
- Merged the exam database with other databases (like background details) and applied statistical analysis on the data.
- Recommended a better design of the exam for enhanced data collection and processing in the future.

Handwritten Text Recognition , IIT Madras

Dec 2018

- Assisted the team which developed an android application for Handwritten Text Recognition of Bharathi Scripts, a proposed common script for India.
- Applied Machine Learning concepts such as Linear Regression, SVM for the classification.

PROJECTS

Concurrent Webserver Written in C

Jul 2019 – Present

- Developed an concurrent webserver from a non-concurrent webserver. Multi-threaded the webserver so that it can handle multiple requests at the same time.
- The excess request is stored in a buffer which is later scheduled by the policies like Smallest File First and FIFO.

Generating SQL queries from Natural Language Written in Python

Jul 2018 – Present

- Currently working on model which would convert a natural language question to SQL query for the ACL anthology dataset. Annotated around 200 question-sql pairs with placeholders and augmented them.
- Implemented a baseline SyntaxSQLNet model for complex and cross domain dataset Spider 1.0. Currently working with random forest classifiers for columns and tables names and using BERT for the condition prediction task. Exact Match accuracy of the model is 65% currently.

Automated Paper Generator Written in Python

Aug 2018 – Nov 2018

- Developed an algorithm to generate a question paper in \LaTeX from the database. A question is categorized into 2 groups, one is the difficulty level and other is the topic (Algebra, Calculus).
- Algorithm takes the total number of question and range of the number of question required in each sub-groups as input.

Web Scraping Written in Python

Aug 2017 – Nov 2017

- Extracted and rearranged the data from a Wikipedia page using Beautiful Soup and urllib libraries in python. Stored the data in MySQL.
- Designed a User-Interface to search through the data efficiently.

COMMUNITY ENGAGEMENT

- Currently leading the Entrepreneurial community of the college which consists of 30 members to foster and power entrepreneurship in collegiate.
- Lead a team of 10 members to organize the biggest student run conclave of Gujarat which featured speakers from all around the world.