

ATHARVA ASHISH RISHI

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EDUCATION

University of Southern California, Los Angeles, CA
Viterbi School of Engineering
Master of Science in Computer Science (Data Science)

January 2020 - December 2021

University of Mumbai, Mumbai, India | **GPA: 8.8/10**
Fr. Conceicao Rodrigues Institute of Technology
Bachelor of Engineering, Information Technology

June 2015 - June 2019

PUBLICATIONS

"Handwritten Gujarati script recognition with image processing and deep learning", IEEE Xplore
[ISBN: 978-1-5386-9166-3]

TECHNICAL SKILLS

Programming Languages: Python 3, Java 8, C, SQL, PHP, HTML5, CSS3

Frameworks: TensorFlow, Hadoop, Bootstrap, Spark

Databases: MySQL, SQL Server, Oracle DB, PostgreSQL, SQLite

Applications/Libraries: Open CV, QT, Anaconda, Pandas, Numpy, XAMPP Server

EXPERIENCE

Research Intern | Tata Institute of Fundamental Research | Mumbai, India **May 2018 - May 2019**

- Implemented an ongoing research project named "Gujarati Script Recognition" with Deep Neural Networks employing TensorFlow and python libraries which was previously learning with SVM, KNN and HOGs
- Developed a pipeline enabling the enhanced OCR to be applied to entire pdfs of Gujarati scripts
- Revamped the entire User Interface using QT and workflow written in C++ making it more accessible and friendlier to new users
- Raised accuracy of recognition from 93% to 98%

PROJECTS

Berlin Tourist Guide

October 2019 - October 2019

- Created a guide for places of attraction near 12 tourist spots in Berlin, helping tourists make most of their trip to Berlin, entirely written in Jupyter notebook
- Extracted 12 tourist sights in Berlin from Wikipedia by invoking beautifulsoup4 library and 10 most popular venues nearby under categories Food, Fun, Coffee, Shop, Club by making API calls to Foursquare.com
- Performed K-Means clustering on the dataframe based on proximity of these places near sights and made several conclusions like locations at the city's center had more options than farther away from it

Central Database

June 2017 - April 2018

- Developed attendance and academic performance modules leveraging technologies such as PHP, HTML and JavaScript storing the data in MySQL databases hosted on servers
- Designed a frontend with HTML and CSS using Bootstrap to be used by both students and faculty
- Integrated these modules with the Fr. CRIT college website and increased the security constraints with a two-factor authentication for faculty

College Hunt

May 2017 - June 2017

- Constructed a website for predicting a list of colleges a student could get into with the GPA and Entrance Exam scores that the student has achieved
- Architected a searching mechanism so students could search for colleges based on proximity, ranking, tuition fees and job recruitment rate

SPLASH Clinic

May 2017 - June 2017

- Engineered a web application written in HTML, CSS, PHP and XAMPP to be hosted on a local server/machine to manage patient records and bills
- Donated the application to a local clinic, digitizing its paper-based record keeping system reducing its use for paper as e-bills after being generated were directly mailed to patients' email