ATHARVA ASHISH RISHI

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EDUCATION

University of Southern California, Los Angeles, CA · **January 2020 - December 2021**
Viterbi School of Engineering
Master of Science in Computer Science (Data Science)

University of Mumbai, Mumbai, India | **GPA: 8.8/10** · **June 2015 - June 2019**
Fr. Conceicao Rodrigues Institute of Technology
Bachelor of Engineering, Information Technology

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: OpenCV, QT, Anaconda, Pandas, Numpy, scikit-learn, XAMPP Server, WordPress, WPEngine

EXPERIENCE

WordPress Manager | USC Sol Price School | Los Angeles, CA · · · · · · · · · · · **December 2020 - Present**
- Designed a website for USC Behavioral Science and Well-Being Policy Initiative program using WordPress and custom coded CSS and HTML for some of the components
- Developed several sub-web pages for the USC Price website by reusing existing modules and page builders
- Handled various maintenance requests by the faculty and fixed the existing bugs on the USC Price website

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 compared to the older UI which had bugs and lacked proper functionality
- Raised accuracy of Gujarati text recognition from 93% to 98%

PROJECTS

Spotify Popularity Predictor · **September 2020 - December 2020**
- Extracted 200,000 songs and their data including the song attributes from Spotify using their web APIs
- Cleaned the data and performed Random Forest Classification with thresholded popularity of a song as the label, created a model for each country to identify the popularity of a new song in each country
- Implemented the program in Python to predict the countries where a song will be popular, with 85% accuracy

Berlin Tourist Guide · **October 2019 - October 2019**
- Created a guide for places of attraction near 12 tourist spots in Berlin, written in Jupyter notebook
- Extracted 12 tourist sights in Berlin from Wikipedia by utilizing 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 data based on proximity of these places near sights and made several conclusions like locations at the city's center had more popular venues 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. C.R.I.T. college website and increased the security constraints with a two-factor authentication for faculty, such that a code would be sent to the faculty's email for authentication

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