

RAVIKIRAN JOIS YEDUR PRABHAKAR

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EDUCATION

Rochester Institute of Technology, Rochester, New York

Expected Aug 2021

Master of Science in Computer Science (GPA: 3.75)

Acharya Institute of Technology, Bangalore, India

Aug 2011 – Sep 2015

Bachelor of Engineering in Computer Science

COURSES

Big Data Analytics, Foundations of Computer Vision, Engineering Cloud Software Systems,
Data Cleaning and Preparation

SKILLS

Programming Languages: Java, Python, MATLAB

Databases: PostgreSQL, MongoDB, MySQL

Tools and Packages: Tableau, Git, Jenkins, Weka, Jira, Maven, scikit-learn, REST APIs, Django,
pandas, NumPy, matplotlib

PROJECTS

Yelp Dataset Analysis

Jan 2020 - May 2020

- Designed and modeled relational database using PostgreSQL and document-oriented database using MongoDB for the Yelp dataset with Python
- Implemented the Apriori algorithm in Python to mine the frequent itemsets from the restaurant data with 1.3M (approx.) entries of 5 popular cities in the US for the most profitable cuisines
- Discovered interesting association rules for each of the popular cities with specific lift and confidence

English-Dutch Language Classifier

Apr 2020 - May 2020

- Built an English-Dutch language classifier for classification of lines of either languages using Python
- Implemented the classifiers by creating the Decision Tree Classifier and increased the accuracy of the results by implementing the Adaboost Machine Learning algorithm and achieved 76.1% and 81.6% accurate classifications respectively

Lane Boundary and Vehicle Detection Simulator

Apr 2020 - May 2020

- A project to detect lanes and vehicles on the road using the video captured using a monocular camera fitted on a vehicle in MATLAB
- The project involved detection and classification the ego lane boundaries and lane marker types
- The vehicle detection was implemented using the Faster R-CNN object detector algorithm and the implementation was tested on different video inputs

Analysis of Traffic Accidents and Violations

Jun 2020 - Aug 2020

- Cleaned, integrated and stored the traffic accidents and violations in the city of Chicago data in MongoDB with 1.2M (approx.) documents and obtained a strong correlation of 0.78 between the red light violations and traffic crashes using Python
- Used pandas, NumPy, scikit-learn to format and cluster the data and then used matplotlib and Tableau to visualize and analyse several interesting observations

EXPERIENCE

Cognizant Technology Solutions

Dec 2015 – Jun 2019

Associate – Web Development and Analysis

- Responsible for back-end web page development of multiple websites using Adobe Experience Manager (AEM) and Java under Agile development environment
- Designed and built the components and templates for websites using Java with the help of some AEM packages
- Performed various analysis on data from website traffic and forms using Java, Microsoft Excel, MongoDB and AEM
- Developed web applications for geolocation based tracking and analysis of end-user activity using Java and Adobe Target integrated with AEM
- Integrated back-end to front-end to ensure end-to-end functionality of the web pages with 100% test-case coverage
- Dealt with queries from clients about the applications and provided efficient and appropriate solutions and fixes
- Mentored and assisted new team members with their primary tasks and ensured effective participation amongst all team members