RHEA RODRIGUES

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Dedicated professional passionate about Machine Learning and Data Science, with a desire to constantly learn.
Undertakes complex assignments, meets tight deadlines and thrives in a fast-paced setting.
Strong quantitative analysis and creative problem-solving ability attributed to my Engineering background.

EDUCATION

Simon Fraser University   *September 2019 - Present*
Professional Master's Program in Computer Science, Big Data Specialization
Mumbai University   *August 2014 - June 2018*
Bachelor of Engineering in Computer Engineering, CGPA : 8.83 / 10

TECHNICAL SKILLS

Programming Languages: Python (Pandas, Scikit-Learn, Numpy, OpenCV, Matplotlib), R, Java, C
Databases and Tools: SQL, Hadoop, MapReduce, PySpark, Spark, MLib, Spark SQL, Git, AWS, MATLAB
Web Technologies: HTML5, CSS, XML, JavaScript, JQuery, PHP

PROFESSIONAL EXPERIENCE

BNP Paribas India Solutions Pvt. Ltd | Associate Test Engineer   *June 2018-March 2019*
- Performed data cleaning and data validation, handled missing values and default values for Bank Of The West's Retail Banking customer data on the ETL testing team.
- Experienced in data manipulation using structured and nested SQL queries, and complex SQL minus queries for creating reports.
- Experienced in using the top-down approach for creating data marts.

OneRoof Technologies | Full Stack Web Development Intern   *Dec 2016-Jan 2017*
- Developed a full-stack website that facilitates clients to plan vacations.
- Designed frontend wireframes and created the database schema for the MySQL database.
- Collaborated with a 5 person team and participated in the code review process.

PROJECTS

Classification of Diabetic Retinopathy   *Jan 2018*
- Built a classifier to determine the existence of Diabetic Retinopathy in Diabetes patients.
- Implemented Gaussian Transform to achieve linear separability on GLCM features extracted from the images of the cornea.
- Evaluated Machine Learning models like ANN and SVM to determine the best classifier.

Hand Gesture Recognition (HGR) for Human-Computer Interaction   *Aug 2017-April 2018*
- Led a 3 person team to design a system to first identify and then trace the movement of the fingertip (performed in front of the web camera) onto an image, followed by preprocessing (using Image Processing techniques like Gaussian blur for noise removal) and classification of the trace image using a trained Support Vector Machine(SVM).
- The SVM was trained on a custom dataset of trace images, cross-validated to find optimal hyperparameters, and achieved an accuracy of 93.3% on the custom test dataset images.
- Correctly recognized gestures allow users to control appliances in a smart home environment.

Facebook Chatbot for a Cafe using Amazon Web Services (AWS)   *July 2017*
- The Lex bot uses all the added sample utterances with embedded slot types and custom slot types to parse the customer queries and requests.
- JavaScript Lambda function uses Lex intent and saves the customer's order to the database and sends a confirmation