APOORVA BISERIA

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EDUCATION:

University at Buffalo, The State University of New York
Masters in Computer Sciences, Expected: December 2019, GPA –3.58
Institute of Engineering and Technology, DAVV Indore
Bachelor in Computer Engineering, May 2018

TECHNICAL SKILLS:

Programming Languages: C, C++, Python, Java, R
Web Technologies: HTML and CSS
Database: SQL
Framework: Eclipse, Android Studio, Tensorflow, Keras, Rstudio, Git

Relevant coursework:

Introduction to Machine Learning (Fall 18'), Computer Vision and Image Processing (Fall18')
Statistical Data mining (Fall 18'), Analysis of Algorithm and Design (Fall 18'), Database System (Spring 19'), Distributed System (Spring 19'), Algorithms for Modern Computing Systems (Spring 19')
Data Intensive Computing (Spring19')

PROJECTS

- **Select Project Join Union Aggregate Query Evaluator** **Ongoing**
  Implementing a database engine in java using JSqlParser. This query evaluator performs select, join, aggregate operations, union , update and supports indexing as well. **Skills: Java and SQL**, **Framework**: **Eclipse**
- **Simple Dynamo** **Ongoing**
  Implementing a dynamo style key value storage with the features of partitioning, replication and failure handling. **Skills: Java**, **Framework**: **Android studio**
- **Simple Chord Distributed Hash Table** **April 2019**
  Implementing a chord distributed hash table in android with id space partitioning, ring based routing and node joins. It also supports query and delete operations. **Skills: Java**, **Framework**: **Android studio**
- **Map Reduce on Hadoop Framework** **April 2019**
  Performing the word count and word co-occurrence algorithm on different types of datasets on current sports trends in USA collected from Twitter API, New York Times API and Common Crawl Data and performed visualisation on Tableau. **Skills: Python**
- **Group Messenger App** **February 2019**
  An android app that is able to send messages to a group of devices and guarantees total and FIFO ordering of the messages and manages node failures as well. **Skills: Java**, **Framework: Android Studio**
- **Morphological image processing and image segmentation** **November 2018**
  Using Morphological operation on images to remove noise. Segmentation of images to segregate object from the background using thresholding. **Skills: Python**
- **Hough Transform and Object Detection** **October2018**
  Detection of geometrical shapes using Hough Transform and performing Object detection using template using Normalized Cross Correlation. **Skills: Python**
- **Digit Recognition** **October 2018**
  Using machine learning classification techniques which are logistic regression, Neural network, Random forest and Support Vector Machine on MNIST dataset to recognize digits and comparing its performance with USPS dataset. **Skills: Python**
- **Color Quantization on images** **October2018**
  Implementing K-means clustering on the image for color quantization. Implementation of Gaussian Markov Model on Old Faithful dataset. **Skills: Python**