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RAHUL CHOWDHURY

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EDUCATION

University of Colorado Boulder	May 2019
Master of Science - Computer Science with Data Science and Engineering Sub plan	GPA: 3.54/4.0

Relevant Courses: Machine Learning, Statistical Methods, Statistical Collaboration, Datacenter Scale Computing

Vellore Institute of Technology	May 2017
Bachelor of Technology - Computer Science and Engineering	GPA: 8.57/10

Relevant Courses: Data Structures and Algorithms, Data Mining and Warehousing, Object Oriented Programming

TECHNICAL SKILLS

Programming Languages: Python, R, Java, MySQL, JavaScript, PHP
Frameworks & Software: TensorFlow, Keras, Hadoop, Map Reduce, Apache Spark, Amazon Web Services, Flask, Git Version Control, Pandas, Numpy, Anaconda, Google Analytics, Google Home and Alexa API Developer Console
Programming Environments: Linux, MacOS, Windows

WORK EXPERIENCE

LISA – Applied Math Department - CU Boulder, CO	Data Science/Statistical Collaborator	Aug 18 – Ongoing

- Collaborated with domain experts from interdisciplinary fields to help them infer meaningful insights with data science.
- Trained with required skills to communicate and present results to statistical concepts and inferences to non-statisticians.

CenturyLink – Denver, CO	Software Engineering and Data Science Intern	May 2018 – Aug 2018

- Designed and developed a framework that collated data from the Digital Home Application for further predictive analytics.
- Worked with the software backend team in inculcating AI capabilities into the Digital Home Application.
- Designed data visualizations to aid the software engineering team in daily operations, maintenance and technical service.

CU Boulder – Computer Science – CU Boulder, CO	Graduate Course Assistant	Aug 2017 – Dec 2017

- Developed class demonstrations utilizing the various Data Mining techniques to discover new patterns in various data sets.
- Mentor students and encourage qualitative and quantitative analytical skills in their Data Mining projects.

Edmingle Learning Management Systems – Chennai, India	Data Science Intern	Dec 2014 – May 2015

- Conceptualized a course recommendation system used by various small schools and private tutors in Southern India.
- Used sophisticated Data Mining algorithms such as Apriori Rule Mining for generating frequent course itemsets.
- Introduced frameworks to cluster similar courses and student profiles and recommend the next course accordingly.

Google Developers Group – Vellore, India	Senior Developer	June 2014 - Sep 2015

- Developed a web platform called Admin Panel to help manage VIT University's various student clubs and chapters to manage their daily tasks, events and meetings in a hassle-free manner.

PROJECTS

The Job Solver	TOOLS USED: AWS, MONGODB, SPARK, ELK STACK	Fall 2018

- Leveraged the storage and computation of the cloud (Amazon Web Services) to develop a 'job title' predicting system.
- Developed a distributed system to extract the most important words from a given job description.

Bees Food Network Analysis and Modelling	TOOLS USED: PANDAS, NETWORKX, D3.JS	Fall 2018

- Modelled a food network for bees to calculate various network statistics and showed similarities to a small world network.
- Utilized various spreading models and performed advanced data analytics to find trends in the different food cascades.

GRDB – Open Source Graph Database	Fall 2017

- GRDB is an open source graph database developed at CU Boulder under the supervision of Professor Frank Miller.
- Implemented Dijkstra's algorithm on GRDB to find shortest distance between two nodes in the given graph.

PUBLICATIONS

1. A Classification Model to Analyse the Spread and Emerging Trends of the Zika Virus in Twitter	*Springer - 2016*
2. Using Ensemble Learning and Association Rules to Help Car Buyers Make Informed Choices	*ACM - 2016*

EXTRA-CURRICULAR ACTIVITIES

Student Leader - Bridges International at University of Colorado Boulder	Fall 2017

Organized meetings and workshops for Bridges International, an organization working for international students.

Emotional Quotient (EQ) Training, University of Colorado Boulder	Fall 2017

Certified in EQ workshop focussed on understanding emotional awareness, conflict resolution and decision making.