**Sahil Ajmera**

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| CAREER SUMMARY |  |
| First year computer science graduate student looking for an internship/co-op opportunity for Summer/Fall 2018 in the field of Software Development/Machine Learning. | |
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| EDUCATION |  |
| **Rochester Institute of Technology,** Rochester, New York Expected Graduation Year – 2019  Master Of Science in Computer Science Cumulative GPA – 3.89 / 4.0  **Manipal Institute of Technology, Manipal**, Karnataka, India Graduation Date – May 2017  Bachelor of Technology in Computer Science | |
| **Projects:** |  |
| ***Gender recognition: Technique using PCA and GA***   * Pre-processing of FERET (Face Recognition Technology) dataset obtained from NIST (National Institute of Standards and Technology). * Implemented **principal component analysis** and **genetic algorithm** for the given dataset using Python. * Tested the model using Back-propagation neural network and Random Forest. * **Achieved** a 2% and a 6% accuracy improvement over traditional gender recognition technique on the FERET dataset and web face images. | |
| ***College website for ease of submission of student details to National Board of Accreditation***   * Programmed a website for ease of storage of information by the college to be presented to NBA. * Wrote code using Java implementing Jsp’s, Servlets and handling the data using MySQL. * **Accomplished** creating a clean , easy to use website for the college students and a simple interface for the authorities to view data in required format for submission to NBA. | |
| ***Variations of K-Means: Removing Randomness of Initial Centroids***   * **Improved** efficiency of the existing K-Means algorithm by resolving issue of random initial centroids. * The modified algorithm identifies the best initial centroids to be used while running the original K-Means algorithm. This way, better clusters are formed. * Based the study on the value of Silhouette Coefficients. * Dataset used: UCI Bank Marketing dataset. | |
| ***Academic project “Restaurant Automation System”***   * Used frameworks like ASP.NET and ADO.NET to automate activities of a Restaurant. * **Created** a product that is currently being used by a “Harish Bakery” in India. | |
| ***Academic project “Taxi Tracking System”***   * **Designed** trackers for owners of taxi services to better assist their customers with reserving a ride. * Trackers can help the owners of taxi services to know when a taxi is free/occupied and based on that information he can reserve rides. | |
| ***Academic project “Image Bazaar”***   * Constructed an image search engine using ASP.NET and ADO.NET. * **Accomplished** creating a clean website for users to buy / sell images on the web. | |
| **Training:** | |
| **ASME Manipal in association with Microsoft and Vicetech Technologies Private Limited**   * Hands-on training on Cloud Computing. * Running a website using Amazon EC2 * Storing data using Amazon S3 | |
| **Espire Infolabs Private Limited**   * Administered data regarding organization resources using Microsoft Dynamics AX 2012 R3. | |
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| SKILLS | |
| **Certifications**: **Oracle Certified Professional, JAVA SE6 Programmer** | |
| **Microsoft Technology Associate for Cloud Fundamentals** | |
| **Programming Language :** JAVA , Python , C# , R , MATLAB , Octave,SQL | |
| **Operating Systems:** Windows, Ubuntu | |
| **Frameworks**: ASP.NET, ADO.NET | |
| **Developer Tools:** Dreamweaver CS6, Notepad++, **Netbeans** IDE, Wing 101 IDE, Visual Studio, MySQL, WEKA, PyCharm IDE, Intellij IDEA | |
| **Relevant Coursework:** Machine Learning, Developing enterprise applications using JEE Technology, Advanced Database Systems, Data Structures, Introduction to Big Data , Foundations of Algorithms, Foundations of Intelligent Systems | |