AAKRITI GUPTA

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SUMMARY

Detail-oriented and highly motivated Data Scientist with a strong background in Computer Science. Passionate about learning and applying skills in machine learning, data visualization and creative thinking to a business setting.

EDUCATION

Masters of Science, Business Analytics **May 2018**
W. P. Carey School of Business at Arizona State University

Bachelor of Science in Engineering, Computer Science, Emphasis in **Bioinformatics** **August 2017**
Barrett, The Honors College at Arizona State University

PROFESSIONAL QUALIFICATIONS

- Data Management
- **Data Mining**: Machine Learning and Text Analytics
- Data Visualization
- Decision Analysis
- Statistical Modeling
- Enterprise Data Modeling
- Optimization Modeling
- Predictive Analytics
- Cost Analysis
- Business Intelligence
- **Machine Learning Algorithms:** KNN, K-Means, Support Vector Machines, Decision Trees, Naïve-Bayes, Logistic Regression, Kohonen Nets
- **Programming:** SQL, Python, R, C, C++, Java, GUI Applets LINUX Shell Programming, Vi and Vim Editor, MATLAB
- **Applications:** MS Office, Tableau, MongoDB, SQL Server Workbench, SAS, Hadoop, SAS Enterprise, SPSS, Palisades Decision Suite, MySQL

PROFESSIONAL EXPERIENCE

Project Analyst - Intern, Intel Corporation **April 2016-Dec 2016**

- Developed insights into the manufacturing data of Intel products for effective decision making by the management.
- Developed a web application using the CA Technologies Rally API for data storage and management for easy access to project data.
- Developed automated indicators and adapted Agile Scrum tools in order to introduce new reporting features for more efficient management review and for comprehensive data analysis.
- Introduced features of Agile methodology.
- Presented tool-generated reports to senior management for suggestions on further development of tool.

Research and Development - Intern, EpiFinder **July 2015-May 2017**

- Developed software to automatically annotate research papers against an ontology containing Epilepsy keywords and concepts.
- Implemented Machine Learning algorithm to improve the accuracy of the predicted diagnosis of Epilepsy algorithmically with the help of published research papers.
- Utilized Natural Language Processing techniques to preprocess of input data (published papers in the form of text files to tokenize, remove stop-words, remove special characters and retrieve part of speech).
- Identified keywords and phrases from the text were mapped to the ontology individually if link existed using Conditional Random Fields or CRF tagging.
- Selected important features and applied to the machine learning algorithm through the implementation of Feature Selection algorithms.

RESEARCH PROJECTS

- **Predictive Analytics:** Using classification and clustering algorithms such as Kohonen Nets, Support Vector Machines, Decision Trees, and Random Forest in order to predict turbofan engine failures. Used Dimensionality Reduction to improve accuracy of models.
- **Deep Learning:** Collaborating with an ASU professor and Mayo Clinic in order to use deep learning techniques for correlation of CT scans and MRA-MRV scans. Utilized Caffe as our environment of development.
- **Visual Data Analysis:** Collaborated with a Mayo Clinic physician and ASU professor on developing an algorithm for efficiently extracting frames from colonoscopy videos so that doctors can analyze groups of frames rather than watching colonoscopy videos in their entirety. Developed using MATLAB.
- **Chance It:** Co-founded a business in which we are removing the idea of superficiality of dating through our app by incorporating voice.