## **Rikin Mathur**

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| EDUCATION                                  | Columbia University – Fu Foundation School of Engr. and Applied Science New York, NY   |
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|  | Master of Science, Electrical Engineering Sept 2015-Dec 2016   |
|  | University of Pittsburgh – Swanson School of Engineering Pittsburgh, PA  |
|  | Bachelor of Science, Electrical and Computer Engineering   Minor, Economics August 2010-May 2015   |
|  | GPA: 3.5 (Graduation with Honors)  |
| SKILLS                                     | Software and Programming: C, Python (Numpy, Scipy, Pandas, SciKit, NLTK), Java, R, MATLAB,   |
|  | Apache Hadoop (MapReduce), Linux, Excel  |
|  | Machine Learning: Regression, Clustering, Classification, Feature Selection  |
|  | Statistics: Hypothesis testing and confidence intervals, Regression models   |
|  | <b>Coursework</b> : Advanced and Intermediate Big Data, Data to Solutions, Machine Learning, Engineering   |
|  | Statistics and Probability, Programming in Java, Linear Algebra, Differential Equations  |
| PROFESSIONAL<br>EXPERIENCE<br>AND PROJECTS | Tracking Profanity in Online Discussions New York, NY  |
|  | Graduate Researcher Nov 2016- Dec 2016   |
|  | <ul> <li>Scraped and Collected Data from APIs of online news sites for detecting profanity and insults in forums</li> <li>Programmed in Python to match profanity using NLP tools and analyzed most predictable features of profanity using Support Vector Machines.</li> </ul>      |
|  | • Correctly verified hypothesis that organized forums and Facebook contain less profanity when compared to minimally regulated news site forums such as New York Times and Wall Street Journal   |
|  | Analog Electronics LabNew York, NY   |
|  | Graduate Researcher Nov 2016- Dec 2016   |
|  | • Extensively programmed in C to sample sound for delay calculations from microphones  |
|  | <ul> <li>Experimented with various Machine Learning Algorithms for predicting collected data</li> <li>Used K-NN algorithm to correctly calculate angle of arrival from sound source</li> </ul>   |
|  | NetApp Inc. Pittsburgh, PA   |
|  | Platform Hardware and Engineering Intern May 2014-August 2018  |
|  | <ul> <li>Extensively programmed in Python to configure firmware, run maintenance tests, and detect failure</li> <li>Developed code and conducted Cloud based data testing for maintenance and worked in depth with Excel to monitor capacity performance for data servers</li> </ul> |
|  | • Development resulted in 77% power reductions during testing with respect to thresholds   |
|  | Bone Osteoporosis Clinical Case Study in Asian Males   |
|  | Research Contributor     Jun 2012-Jul 2012     Preseived Marit Scholarship to participate in a 10 year undate study on Rone Mass Density   |
|  | • Received Merit Scholarship to participate in a to year-update study on Bone Mass Density<br>measurements and nutritional lifestyle in Indian males   |
|  | • Collected data on daily eating habits and nutrition from over 100 randomly selected males and used   |
|  | Excel to analyze 100,000 item data set generating analysis used by researchers to highlight factors causing significant bone mass decay in South Asian Males   |
| AWARDS                                     | ISF Research Award: Scholarship to conduct study on Osteoporosis in India  |
|  | Dean's List (2010-2015): Excellent academic performance during semesters and upon Graduation   |
|  | 1 <sup>st</sup> Place Deloitte Consulting Case Competition: Presented a solution for a gaming company  |
|  | regarding long term investments in technology for better profit margins and revenue growth   |