# RUCHIT MODI

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## EDUCATION

**Stony Brook University**, Stony Brook, NY                                      **Aug 2019 - Dec 2020 (Expected)**
*Master of Science in Computer Science*
   - Relevant Courses: Artificial Intelligence, Natural Language Processing, Data Science Fundamentals

**Veermata Jijabai Technological Institute (VJTI)**, Mumbai, India            **Jul 2012 – May 2016**
*Bachelor of Technology in Information Technology*                            **CGPA 9.61/10.00**
   - Relevant Courses: Data Structures & Algorithms, Operating Systems, Image Processing, Network Security

## TECHNICAL

   - Languages: Java, Python, MySQL, C/C++, HTML, CSS, JavaScript, JSP
   - Tools: Git, Maven, Redis, RabbitMQ, Apache Flink, Apache Kafka, Docker, Hive, HBase, Salesforce
   - Utilities: Intellij Idea, Visual Studio Code, Sublime Text, Jupyter, phpMyAdmin, MacOS, Windows, Linux

## EXPERIENCE

**Media.Net Software Services Pvt. Ltd. (Directi)**, Mumbai, India            **Jul 2016 – Aug 2019**
*Software Development Engineer 2 (Skills: Git, Maven, Redis, Jupyter, RabbitMQ, Flink)*
   - Designed and implemented an entire data flow architecture for automation of keyword launch pipeline for advertisement; improved the efficiency of the pipeline by ~80%
   - Devised an algorithm to show contextual ad keywords on a webpage using information from the content of its parent url webpage that contributed an additional ~50% revenue to the existing analyser
   - Created a search engine api which returns Bing search results and relevant phrases of a keyword using TextRank: a modified PageRank algorithm
   - Worked on a Bandit algorithm project that explores similar intent keywords and exploits the best keyword which is earning higher revenue per impression
   - Performed end-to-end development of applications including design, implementation, testing, deployment and maintenance tasks

**Deloitte Consulting India Pvt. Ltd.**, Mumbai, India                        **May 2015 – Jul 2015**
*Business Technology Analyst Intern (Skills: Salesforce, Apex, Visualforce)*
   - Created custom visualforce pages and controllers/extensions per client requirements; created Apex triggers to automate tasks on insertion/updation of records in Salesforce.com
   - Optimized triggers to increase efficiency by ~30% and meet the Governor Execution limits of Salesforce

## PROJECTS

**Email Classification Using Supervised Learning Algorithms** *(Skills: ML, NLP, Latex)*
   - Devised an Email Classification algorithm using Machine Learning and Natural Language Processing to help classify emails into custom user-defined labels
   - Performed data preprocessing steps using tokenization, stopwords removal and stemming; implemented two classification algorithms: k-NN and Naive Bayes Classifier on Enron Dataset
   - Published a technical paper in "Advances in Intelligent Systems and Computing" (AISC, volume 564) series of Springer 2017 (https://doi.org/10.1007/978-981-10-6875-1_9)

**Other Projects** *(Skills: Java. Python, MySQL, AI, Data Structures and Algorithms)*
   - *Company-Clinic Database Management System*: Database application developed using Java and MySQL to maintain records of employees (including their dependents) availing treatment at their employer's clinic
   - *Tic Tac Toe*: AI game in Python developed using min-max algorithm and alpha-beta pruning
   - *Snake-2, Minesweeper*: Application games developed using Java AWT and Swing tools respectively

## ADDITIONAL

   - Award Recipient, JRD Tata Scholarship (2015 & 2016) for excellent academic performance
   - Runner up, Technohunt (2015), a treasure hunt inspired coding competition in Technovanza, VJTI
   - Runner up, Android Application Coding Challenge (2014), Credit Suisse Group