

# Harshali Talele

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## EDUCATION

<b>State University of New York at Buffalo, USA (3.7/4)</b>	Dec 2020
Master of Science in Computer Science	
<b>Veermata Jijabai Technological Institute, Mumbai, India (7.2/10)</b>	May 2014
Bachelor of Technology in Electronics and Telecommunication	

## TECHNICAL SKILLS

<b>Programming Skills:</b>	Java, Python, Android, MySQL, SQLite, Oracle
<b>Web Development:</b>	JavaScript, AngularJS, ReactJS, Bootstrap CSS, HTML, CSS, jQuery
<b>Cloud Technologies:</b>	AWS EC2, AWS Elastic Beans deployment, Apache Solr
<b>Others:</b>	Git, BitBucket, Jira, Trello, Keras, Tensorflow, Sci-Kit Learn, NLP

## PROFESSIONAL EXPERIENCE

<b>Elsevier, Data Science intern</b>	Jun 2020 - Current
<ul style="list-style-type: none"><li>Performed classification of images as flowchart and non-flowchart by applying Machine Learning algorithms on Captions of images and text extracted from images</li><li>Developed a Search engine web application to perform search and labeling of images based on text extracted from images</li><li>Explored sentence aligners algorithms to align multilingual already translated sentences of the journals</li></ul>	
<b>AIRA Matrix, Senior Software Engineer</b>	Sep 2017 – Jul 2019
<ul style="list-style-type: none"><li>Developed a Tiled Image viewer framework to view large medical images on Slide management system on web platform. Also, developed a scalable annotation library in vanilla JavaScript</li><li>Proposed and worked on a hybrid solution to improve performance of the web application workflow and redesigned the architecture</li><li>Undertook the responsibility of interviews for 3 junior developer positions and initiated a code review process</li></ul>	
<b>CitiusTech Healthcare IT Solutions, Software Engineer</b>	Jun 2014 – Aug 2017
<ul style="list-style-type: none"><li>Developed several web modules as a full-stack developer with Java as back-end and AngularJS as front-end skillset and also, explored technologies like Service discovery and microservices</li><li>Worked with performance optimization team and implemented a few requirement specific data structure and algorithms for web applications</li></ul>	

## ACADEMIC PROJECTS

<b>Dynamo</b>	Jan 2020 - May 2020
<ul style="list-style-type: none"><li>Implemented simplified version of Amazon Dynamo using Android based system containing 5 AVDs</li><li>Project comprised of three main parts:<ul style="list-style-type: none"><li>Partitioning: Data to be stored was distributed among the distributed system of 5 AVDs according to Hash values of the nodes (obtained by SHA -1 algorithm)</li><li>Replication: Data was replicated in other devices as well in case of a device failure</li><li>Failure handling: Failures were detected and dealt without disturbance to regular behaviour</li></ul></li><li>Technology used: Android (Java), Socket Programming, FIFO-Total Ordering, Quorum Replication</li></ul>	
<b>Classification of handwritten digits</b>	Jan 2020 - May 2020
<ul style="list-style-type: none"><li>Developed four different models - a logistic regression model using back propagation and Stochastic Gradient Descent, Random forest and Support vector machine to recognize a 28 x 28 grayscale handwritten digit image and identify as a digit among 0,1,2...,9.</li></ul>	
<b>Rock, Paper, Scissor gesture recognition (MS Project)</b>	Jan 2020 - May 2020
<ul style="list-style-type: none"><li>Developed an application NAOqi (Operating System of NAO Robot) for NAO Robot to play Rock, Paper, Scissor game with a human</li><li>Trained a model on the image datasets and chose one(from Keras) that resulted in best accuracy on real time images taken by NAO robot</li><li>Developed a REST API to predict the gesture and integrated with NAO application</li></ul>	
<b>Search engine specific to Political Tweets</b>	Aug 2019- Nov 2019
<ul style="list-style-type: none"><li>Built a search engine on static corpus of 400,000 plus Tweets by influential international figures</li><li>Indexed data in Apache Solr, used PythonFlask for backend services, Angular for front end and AWS Elastic Beanstalk for deployment</li><li>Performed sentiment analysis on the results and presented statistical information of results in graphical and charts formats</li></ul>	

## HONORS AND AWARDS

<b>Above and Beyond Award</b> at AIRA Matrix	2018
<b>Raise the bar Award</b> at CitiusTech	2015