

SAINAG SHETTY

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EDUCATION:

North Carolina State University

Master's of Computer Science

Current GPA: 4.0/4.0

August 2017 - December 2018(Expected)

- **Courses:** Foundations of Data Science, Algorithms, Automated Learning and Data Analysis, Advanced Data Structures, Software Engineering, Data-Driven Decision Making

University of Mumbai

Bachelor of Engineering- Computer Engineering

GPA: 9.11/10

August 2013 - May 2017

- **Courses:** Soft Computing, Data Warehousing & Mining, Artificial Intelligence, Distributed Databases, Object Oriented Analysis and Design, Computer Networks
 - Awarded the **Certificate of Excellence** for holding an Institutional Third Rank in BE (Computer Engineering)
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SOFTWARE SKILLS:

- **Languages:** Python, R, C, C++, Java, Node.js
 - **Technologies and Tools:** Git, AWS, Photoshop, PyCharm, LAMP, Hadoop
 - **Databases:** MySQL, MongoDB, NoSQL
 - **Web Languages:** JavaScript, PHP, HTML, CSS
 - **Operating Systems:** MacOS, Linux, Windows
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PROFESSIONAL EXPERIENCE:

Hippily Technology Pvt. Ltd. Software Developer Intern

Summer 2015

- Analyzed the company's system for providing personalized products for the users
 - Developed front-end features and User Interface designs across the Android application of Hippily
 - Incorporated a camera functionality to the application which allows users to take pictures and it is stored on the server
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ACADEMIC PROJECTS:

Simulating Game Agent using Q-Network (Python, TensorFlow, Keras, Q-Learning, Deep Learning, Game Simulation)

- Created an Agent to play the game Flappy Bird with Deep Q Learning, a Reinforcement Learning Technique
- Developed a convolutional neural network, trained with a variant of Q-learning with inputs as raw pixels producing an value function estimating future rewards

Finding sister cities (Python, Unstructured Text Analytics, NLP)

- Developing an application that takes different parameters such as Demographics, Culture, among others to predict which are the sister cities to the input city
- Using structured data from sources such as Census, & .gov sites, along with news articles for the unstructured text analytics

Mammogram Classification (SVM, CNN, Decision Tree, K-Means, Python)

- Analyzed different implementations such as SVM, Convolutional Neural Networks, K-Means, Decision Tree, Regression for classification
- Developed an implementation using modified K-means called Adaptive K-Means Algorithm

Object detection and estimation (Python, OpenCV, R-CNN, APIs)

- Designed an application that detects everyday objects and took the information to provide purchase links from Amazon
- Recognition of the object was done using YOLO framework based on R-CNN. The model was trained on the COCO dataset
- Provided the user with purchase links for the detected object using the API's provided by the vendor site

Task Scheduling Bot (Node.js, Python, AWS, Google Calendar API, MongoDB)

- Developed an algorithm which uses the student's tasks and courses to generate a personalized schedule
- Used Node.js for developing the bot and Python for the scheduling algorithm using MongoDB for the storage

Web Article Saving System (PHP, JavaScript, MySQL)

- Developed an online news articles and webpage saving system which stores the content without any clutter such as adverts
 - Utilized the AlchemyAPI for fetching the article content and MySQL to store it in the database
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PUBLICATIONS & CONFERENCES:

- Shetty. Sainag, et al. "**Real time object detection and recognition and estimation of price of the object.**" International Journal of Research in Science & Engineering Special Issue 7-ICEMTE March 2017
- Shetty. Sainag, et al. "**Detection and Recognition of Objects and Providing Purchase links using APIs.**" International Journal of Engineering Science 10897