SAINAG SHETTY

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EDUCATION:

North Carolina State University   **Current GPA: 4.0/4.0**
- Master's of Computer Science   Expected: May 2019
- Courses: Foundations of Data Science, Design and Analysis of Algorithms, Automated Learning and Data Analysis, Advanced Data Structures, Software Engineering, Data-Driven Decision Making

University of Mumbai   **GPA: 9.11/10**
- Bachelor of Engineering- Computer Engineering   May 2017
- Courses: Soft Computing, Data Warehousing and Mining, Artificial Intelligence, Distributed Databases, Structured and Object Oriented Analysis and Design, Computer Networks, Cryptography and System Security

SOFTWARE SKILLS:

- Programming Languages: Python, C, C++, Java, MySQL, JavaScript
- Web Technologies: HTML, XML, CSS, PHP, Node.js
- Others: Git, Android Studio, MATLAB, AWS, Adobe Photoshop, LaTeX

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 tweaks 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.

ACADEMIC PROJECTS:

Task Scheduling Bot   Ongoing
- Proposed a bot developed on Slack that will consider all the tasks of a user to generate a personalized schedule. It will also allow for group meeting scheduling.
- Implementation of the bot will be on Node.js and Python for the scheduling. The application will be deployed on AWS.

Simulating Game Agent using Q-Network
- 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, whose input is raw pixels and whose output is a value function estimating future rewards.

Mammogram Classification
- 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
- Designed an application that detects everyday objects and took the information to provide purchase links from Flipkart.
- 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.

ReadItLater [Webpage Saving System]
- 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

PUBLICATIONS & PRESENTATIONS:

- 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

HONORS, AWARDS & ACTIVITIES:

- [Hackathon] Developed a Chat bot as part of the Annual LexisNexis Hackathon, which provides a text-oriented, conversational interface to answer research questions related to the Cases handled at LexisNexis.
- [Scholarship]Recipient of the Sri Dorabji Tata Scholarship for academic excellence covering full tuition for the academic years 2014-15 and 2015-16