

SAINAG SHETTY

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EDUCATION:

North Carolina State University

- Master's of Computer Science
- Courses: Foundations of Data Science, Design and Analysis of Algorithms, Automated Learning and Design Analysis.

Current GPA: 4.0/4.0

Expected: May 2019

University of Mumbai

- Bachelor of Engineering- Computer Engineering

GPA: 9.11/10

May 2017

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 Hippily server.

ACADEMIC PROJECTS:

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

Attacks and its prevention on Mail server

- Demonstrated various attacks on a local Mail Server System using. The various attacks implemented were Buffer Overflow, SQL Injection, Code Injection, Eavesdropping, Phishing and Brute Force Attack
- Security implementations against the attacks were developed.

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

SOFTWARE SKILLS:

- Programming Languages: C, C++, Java, Python, MySQL, JavaScript
- Web Technologies: HTML, CSS, PHP
- Others: Git, Android Studio, MATLAB, Adobe Photoshop

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
- [Coding Competition] Secured the second position in CodeVita (Round 1), conducted by Tata Consultancy Services, among 150,000+ teams across India, in the year 2015
- [Coding Competition] Secured 115th position in CodeVita (Round 1) and 240th position in CodeVita (Round 2), conducted by Tata Consultancy Services, among 200,000+ million teams across India, in the year 2016