



# ABHEDYA KHATIWALA

Computer Science Graduate  
Student at New York  
University

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## Skills

### Technologies and libraries

Amazon Web Services, Machine Learning, Deep Learning, Keras, Tensorflow, JupyterNotebook, CLI

### Programming and scripting languages

C++, Python, Java, JavaScript, Shell, HTML

### Development IDEs

Android Studio, JetBrains IDE, Eclipse IDE, Atom

### Systems

MacOS, Linux (Various Distributions), Windows

## Courses and Certifications

- Deep Learning and Machine Learning with Python
- Linux Essentials
- Big Data Basics
- Android App Development
- Neural Networks and Deep Learning
- C++ Pointers

## Awards and Recognitions

Computer Engineering Department  
Topper

Best Project Award for Science  
Exhibition - 2015

Best Project Award for Science  
Exhibition - 2016

## Summary

Passionate computer science graduate student actively seeking internships. Previously a Project Intern at eDreamz Technologies where I worked on the project CardFellow. Machine Learning and Deep Learning projects as personal as well as course requirements. Highest grade achiever for the Computer Engineering department at undergrad institution. A team worker, motivator and an autodidact. Innovative, focused and goal achiever.

## Education

- 2018 - 2020 **Master's of Science (Computer Science)**  
New York University
- 2014 - 2018 **Bachelor's of Engineering (Computer Engineering)**  
University of Pune - GPA 3.9/4.0

## Work experience

- 2016-12 - **Project Intern**  
2017-03 **eDreamz Technologies Pvt**  
Worked on Project Cardfellow using JavaScript, HTML5 and CSS.

## Projects

- Aug 2017 - **Autonomous Vehicle with Raspberry Pi using Deep Learning**  
May 2018 **University of Pune**  
Developed a self-driving vehicle raspberry pi. Created a labelled dataset of 13,000 images from scratch and further used data augmentation to increase the dataset. Further, used Keras to make a feed forward neural network architecture and created a deep learning model with an accuracy of 85%.
- Aug 2017 - **Cats and Dogs Image Classifier**  
Sep 2017 **fast.ai**  
This project was a part of the Cats Vs Dogs competition held on Kaggle. Fine-tuned the VGG model and trained it on a dataset of 12500 images. AWS GPU Instance p2.xlarge (NVIDIA Tesla K80 GPU) was used for training the model and achieved an accuracy of 98.40% on the testing set.
- December 2016 **Portable AI assistant using Raspberry Pi**  
I developed a portable voice-controlled assistant inspired by Siri and Google Assistant using the Google API on the Raspberry Pi Model 3.
- Jul 2016 - **5 Degrees of Freedom - Robotic Arm using Arduino**  
Sep 2016 **Developed a five degree of freedom robotic arm using Arduino and 3D printed parts. Used a parallel gripper for picking up objects by using pulse width modulation.**
- Aug 2015 - **Bluetooth Controlled Vehicle with Autonomous Mode and Obstacle Avoidance**  
Sep 2015 **Made an obstacle avoiding robot using Arduino and ultrasonic sensors. Used a bluetooth sensor HC-05 to connect to an Android application to communicate with the microprocessor and move the vehicle remotely.**

## Publication

[Autonomous Vehicle with Raspberry Pi using Deep Learning](#)