

ABHEDYA KHATIWALA

Programmer | Entrepreneur | Data Scientist

📍 Pune, India

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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

Organization

Institute of Electrical and Electronics Engineers - Student Member

Education

2018 - 2019 **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

Sept 2018 - Current **Graduate Research Assistant**
New York University - High Speed Networking Lab
Using machine learning and deep learning methods in computer networks for anomaly detection.

Dec 2016 - March 2017 **Project Intern**
eDreamz Technologies Pvt. Ltd.
Worked on Project Cardfellow using JavaScript, HTML5 and CSS.

Projects

Sep 2018 - Nov 2018 **Anomaly detection in Computer Networks using Deep Learning**
NYU - High Speed Networking Lab
Developed an Autoencoder using keras to detect anomalies in computer networks like DoS Hulk, DoS Goldeneye, where I achieved an accuracy of 96%. The dataset used for this project was CICIDS2017. This project was part of the research project at the NYU High Speed Networking Laboratory.

Aug 2017 - May 2018 **Autonomous Vehicle with Raspberry Pi using Deep Learning**
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 double 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 - Sep 2017 **Cats and Dogs Image Classifier**
fast.ai
This project was a part of the Cats Vs Dogs competition held on Kaggle. 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**
Developed a portable voice-controlled assistant inspired by Siri and Google Assistant using the Google API on the Raspberry Pi Model 3.

Jul 2016 - Sep 2016 **5 Degrees of Freedom - Robotic Arm using Arduino**
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 - Sep 2015 **Bluetooth Controlled Vehicle with Autonomous Mode and Obstacle Avoidance**
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](#)