

# Anish Shah

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## EDUCATION

### Courant Institute of Mathematical Sciences, New York University

Sep 2017-Present

Master of Science in Computer Science

### Veermata Jijabai Technological Institute, Mumbai, India. (VJTI)

August 2012-May 2016

Secured Bachelor of Technology in Information Technology with *Distinction* (CGPI 8.2/10)

Relevant Courses: Artificial Intelligence, Data Mining, Data Structures, Algorithms, Operating Systems, Database Management, Compiler Construction, Computer Organization, Software Engineering, Web Technology etc.

## PROFESSIONAL EXPERIENCE

### New York University, New York

Sep 2017-Present

Graduate Teaching Assistant

- Assisting professor for the course - "Introduction to Computer Programming using Python"
- Solving students' doubts regarding course materials or assignments.

### Arya.ai, Mumbai, India

June 2016-June 2017

Data Scientist

- Developed an automated Cheque Processing System using Python Django and Tensorflow for Axis Bank which extracts cheque information such as date, courtesy amount, and account number as text from a cheque image and validates the signature on the cheque from bank's database.
- Built an image recognition REST API using Python Django and Tensorflow that recognizes 10000+ objects from a given image.

### Google Summer of Code

May 2016 - Aug 2016

Software Engineer (Python Software Foundation)

The Google Summer of Code is an international annual program by Google for students to contribute to free and open-source software projects during the summer. I was selected to contribute to the Python Software Foundation (PSF).

- Engineered a new workflow using Python to improve the patch submission process to Core Python issue tracker.
- Integrated GitHub webhooks and API with Python issue tracker to automate the linking of GitHub pull request and issues.

### WorkIndia, Mumbai, India

Nov 2015 - Dec 2015

Data Scientist Intern

WorkIndia is a company that directly connects companies with blue & mixed collar employees.

- Implemented an Elasticsearch service in Python to store Google Analytics data and showcase it using Kibana in real-time.
- Created data visualization graphs using Python to understand user behavior such as most common features used, most searched job locations etc.

### Amazon.com, Hyderabad, India

May 2015 - July 2015

Software Engineer Intern - Transport Financial Systems

- Developed an Elasticsearch service for Invoice Search.
- Improved the performance by Integrating Elasticsearch service with Invoice Search and replaced the older version of Invoice Search on OracleDB, which was slow and not scalable.
- Incorporated search filters using JavaScript for customized Invoice Search such as Container ID, Invoice Date, Package ID that helps auditors to retrieve invoices easily.
- Programmed a service in Java to generate CSV reports for auditors according to the search filters.

### PriceBaba.com, Mumbai, India

May 2014 - July 2014

Data Scientist Intern

- Spearheaded the development of a generic crawler using Python Scrapy framework that extracts product information from various Indian eCommerce websites.
- Engineered a clustering model in Python to cluster similar products from different websites.

### ThinkLABS, Mumbai, India

Dec 2013 - Jan 2014

Software Engineer Intern

- Developed a software using Python PySide called ThinkMatrix that has a visual programming editor to help students learn programming. The software allows student to program an array of LEDs.
- Built an API using Python PySerial library to communicate with microcontroller over USB port.

## PUBLICATIONS

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**"Deep Residual Networks with Exponential Linear Units."** Anish Shah, Eashan Kadam, Hena Shah, Sameer Shinde, Sandip Shingade. *Vision Net 2016, India*.

Designed a model which improves the learning behavior of Residual Networks and has better accuracy compared to previously published state-of-the-art models.

## PROJECTS

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### State farm distracted driver detection (Kaggle Competition)

- Built a model to predict whether a driver is texting, talking on phone or drinking a beverage while driving.
- Implemented a paper – Class activation maps by Zhou *et al* to visualize the object localization in an image by neural networks
- Technology used: Python (Keras library)

### Vocabulary Builder app

- Created an app that helps the users learn new words using sentence completion questions.
- Implemented a crawler to get millions of newspaper article and then tokenized them into sentences and clustered each sentences according to words. A sentence from a cluster is randomly selected and served to the user.
- Technology used: Python (Scrapy, NLTK)

### Indian Election Data Analysis

- Designed a site to visualize the election data according to different parameters such as vote percentage, political party, candidate age, gender and so on.
- Created a script to download and clean the data from Election Commission of India website and then create data visualizations for a user.
- Technology used: Python, D3.js

### Speech recognition using Microsoft Kinect

- Designed a Windows app that recognizes speech commands from user and performs the corresponding actions.
- Engineered the app using Kinect SDK that converts an audio stream to text and this text can be mapped to commands such as opening a web browser or a folder.
- Technology used: C#, Kinect

## SOFTWARE SKILLS

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- Programming Languages: C, C++, Java, Python, JavaScript
- Web Backend Technologies: Django, Mongo, PostgreSQL, MySQL, AWS, Heroku
- Web Frontend Technologies: HTML, CSS
- Software: Git, Vim, Docker

## PROFILE LINKS

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### GitHub -

- Contributed to projects like Scikit-Learn, Tensorflow, Keras, CPython.
- Link - <https://github.com/AnishShah>

### Blog

- Wrote Blogposts to explain concepts and research papers in Machine Learning.
- Blog - <https://anishshah.github.io>