

# Rajath Shetty

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## OBJECTIVE

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Computer Science graduate with 1.5 years of experience in Python looking for a Summer Internship in the field of software

## SKILLS

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Languages: Python, MySQL, HTML, CSS, Javascript

Skills: Machine Learning, Backend Dev, Scripting, Algorithms

Frameworks: Django, Tensorflow, REST API, Pandas, Scikit

Tools: Git, Unix Command Line

## EXPERIENCE

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### RoundSqr Inc — Backend Developer

FEB 2019 - JULY 2019

Solely contributed towards the development of Django views and Django APIs to develop a commercial Android Application. It made use of REST API, Django framework and hosted on AWS. Hosted a Tensorflow based YOLO model in an AWS instance.

### Eautomaton Cognitive Services — Python Developer

SEPT 2017 - SEPT 2018

Worked on building an end to end Machine Learning based Real time Application. It was a Predictive Engine deployed in Hospitals. The backend was built using Django and the front end used HTML, CSS and Javascript. It used machine learning models based on Random Forest algorithm that trained on demographic details as well as factors like weather, location to make predictions. It contributed to an annual revenue of 210,000\$ for my startup.

## EDUCATION

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### University Of Massachusetts, Boston — Masters in Computer Science

AUGUST 2019 - MAY 2021

### Bangalore Institute Of Technology, Bangalore — Bachelor of Engineering

JUNE 2013 - JULY 2017

## PROJECTS

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### Neural Network from Scratch

- Building a Neural Network using just a numpy library to emulate an OR gate
- It is a single layer neural network. Built solely using numpy library.
- Trained using 1000 epochs and sigmoid function is used for activation.
- Takes 3 input signals of either 0 or 1. Weights are randomly initialized.

### Sentiment Classifier using Tensorflow

- Classified IMDB comments into positive or negative sentiment using TensorFlow, NLTK and Gensim libraries
- Converted labels into one-hot encoding and used NLTK library to remove stop-words and tokenize words
- Fed tokens to Word2Vec model to convert it into word embedding; used conventional gradient descent for loss function

### Analysis of US Gun fatalities

- Analyzed the victims based on various demographic details like ethnic origin based on data from 2012 to 2014 using pandas library
- Plotted the Homicide distribution per month and found that January has the least fatalities