

## EDUCATION

### B.E in Computer Engineering

A.P. Shah Institute of Technology

D.T.E, University of Mumbai

AUG 2018

CGPA - 6.4, Major - 7.7

### Diploma in Mechanical Engineering

Maharashtra State Board of Technical Education, Thane

Jun 2015

Marks - 73%

### Secondary School Certificate

Thakur Vidya Mandir High School

Maharashtra State Board, Mumbai

Jun 2012

Marks - 84%

## SKILLS

### Languages

JAVA, Python, JavaScript, C#, Ruby, HTML/CSS, C, Clojure, C++, PHP & MySQL.

### Framework/Environments

Android, TensorFlow, Nvidia CUDA, Keras, NodeJS, AngularJS, DeepLearning4j, Rails, React/Redux, Matlab.

## AWARDS

### Smart India Hackathon 2017

Awarded By

- Ministry of Road Transport and Highways, Government of India.
- Persistent Systems Ltd.

Apr 2017

- Website

[pratikdk.github.io](https://pratikdk.github.io)

- Github

[github.com/pratikdk](https://github.com/pratikdk)

- LinkedIn

[linkedin.com/in/pratikdeoolwadikar](https://linkedin.com/in/pratikdeoolwadikar)

## CERTIFICATION

### Machine Learning Engineer Nanodegree

Amazon Web Services, Kaggle Certified - Udacity

- Mastered core fundamentals of Supervised Learning, Un-Supervised Learning, Deep Learning and Reinforcement Learning.
- Developed models based on Nvidia CUDA, Tensorflow, Keras, Caffe, Pytorch as project frameworks.

Feb 2018

### Android Developer Nanodegree

Google Certified - Udacity

- Designed by Google Developers team, extensively covers Advanced Android Architecture components, tools, principles and patterns that underlie all Android development.
- Developed Apps using core API features, Hardware components, sensors and third-party Frameworks.

Apr 2018

## PROJECTS

### Earthquake Detection, Sensory Smartphone Network

- Tensorflow to process simulated time series data using LSTM.
- Background Android app to monitor fluctuation patterns and provide true positive predictions.
- Node JS server to receive and relay other devices within proximity to perform predictions upon trigger using Firebase.

### Human Activity Recognition, Deep LSTMs on Android

- Realtime activity prediction on spatial data of Accelerometer.
- Trained model exported and used in Android app.
- Classification accuracy of 92% amongst six activities.

### Credit Card Fraud Detection, Keras Autoencoders

- Deep Autoencoder on PCA Transformed data using Keras.
- Semi-supervised reconstruction of Non-Fraudulent transactions from unlabelled data for anomaly detection.

### Predictive Keyboard, Recurrent Neural Networks

- Created a RNN model for predicting multiple word completions based on a few of previous character inputs.
- Used LSTM to learn structure of long term dependencies from input corpus using Keras.

### Automatic Proximity Toll Payment Android App

- Android App for Dynamic Toll payments based on GPS proximity using e-wallet.
- Used Google Maps API with route refining algorithms to eliminate anomalies concerned with routes and tolls of interest.

### Recommender System based on Customer Segments

- Un-supervised techniques on customers of a distributor to identify customer segments concluding potential clients.
- Gaussian Mixture Model to identify soft complex clusters.