

## EDUCATION

### B.E in Computer Engineering

A.P. Shah Institute of Technology  
D.T.E, University of Mumbai  
AUG 2018

### Diploma in Mechanical Engineering

Maharashtra State Board of Technical Education, Thane  
Jun 2015

### Secondary School Certificate

Thakur Vidya Mandir High School  
Maharashtra State Board, Mumbai  
Jun 2012

## SKILLS

### Languages

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

### Framework/Environments

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

## 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)

## EXPERIENCE

### Data Scientist - NanoPrecise Sci Corp

- Developed Prediction systems applying research to filter, process and analyse vibration data streaming from multiple/hybrid sensors.
- Predictions for (RUL) Remaining Useful Life of industrial assets like rotating machinery and structures.

## 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.

### Android Developer Nanodegree

Google Certified - Udacity

- Extensively covers Advanced Android Architecture components, principles. Developed Apps using core API features, Hardware components, sensors and third-party Frameworks.

## 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.
- Perfect classification accuracy of 97% 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 unlabeled 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.

### Recommender System based on Customer Segments

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