

# Het Pandya

Machine Learning Engineer

## Profile

Hi I am Het, passionate about counting stars under the sky of Deep Learning and Machine Learning.

## Employment History

**Machine Learning Engineer - Inferenz Tech Pvt Ltd, Ahmedabad, India**

July 2020 - Dec 2020

**Machine Learning Intern - Inferenz Tech Pvt Ltd, Ahmedabad, India**

Jan 2020 - July 2020

## Education

**MSc Artificial Intelligence and Machine Learning - Dept of Computer Science, Gujarat University, Ahmedabad, India**

July 2018 - July 2020

**BCA - Virani Science College, Rajkot, India**

July 2015 - May 2018

## Publications

**Implementing Home Automation: Beyond Ideas and Possibilities IRJIET, Volume 4, Issue 4, April 2020**

Apr, 2020

## Projects

**Speech Synthesis & Speaker adaptation**

Sep 2020 - Jan 2021

Generating speech for a given text in a particular voice using deep learning for speaker adaptation.

**Python Package - YouTube Speech Dataset Generator**

Oct 2020 - Nov 2020

A python library to generate speech dataset from YouTube videos that takes care of almost all speech data preprocessing needed to build a speech dataset along with their transcriptions.

Link - <https://pypi.org/project/youtube-tts-data-generator>

## Personal Information

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<https://hetpandya.github.io>

 het-pandya

## Frameworks

Tensorflow, Keras, Pytorch, Pandas, Scikit-learn, Rasa, ONNX, TFLite, Flask, NLTK, Spacy, OpenCV

## Professional skills

**Deep Learning**

★★★★☆

**Machine Learning**

★★★★☆

**NLP**

★★★★☆

**Python**

★★★★☆

**Transfer Learning**

★★★★☆

**Model Optimization**

★★★★☆

**Computer Vision**

★★★★☆

**Git**

★★★★☆

**Model Deployment**

★★★★☆

**IoT**

★★★★☆

## Languages

**English**

Fluent

**Hindi**

Fluent

**Gujarati**

Native

## Projects

### BERT Question Answering for Open Domain

Nov 2020 - Dec 2020

Fetching answers from an open domain corpus for a question given using BERT.

### Virtual Mirror for Apparel Try On

July 2020 - Sep 2020

Using deep learning and computer vision to try clothes virtually on humans.

### Entertainment Assistant

Sep 2020 - Sep 2020

A conversational assistant for Android devices and web that fetches a random joke from the internet or plays a song mentioned by the user.

### Gender Identification using voice

Aug 2020 - Aug 2020

Identifying the gender of a person using machine learning by using their voice as input.

### Customer Ranking

May 2020 - July 2020

Ranking customers according to their buying patterns so as to provide them with various offers according to their ranks.

### Fall Detection

Feb 2020 - July 2020

Detection of accidental human falls using deep learning and computer vision.

### LCD Panel/QR Extraction and OCR

March 2020 - May 2020

Extracting LCD panels and QR code from Android devices using object detection and performing OCR from the extracted panels.

### Shopping Assistant

Feb 2020 - Apr 2020

Conversational AI that would help users assist buying groceries, manage their orders using chat conversations.

### Face Recognition and Spoof Detection

Feb 2019 - July 2019

Unlock doors using face recognition after verifying the recognized face is not a spoofed one.

### Speaker Identification and Verification

Feb 2019 - July 2019

Unlocking doors using speech of a person by identifying the speech and verifying it against the trained data.

## Projects

### Smart Home

July 2019 - Dec 2019

The motive of the project was to control home appliances using Android smartphone as speech input via Bluetooth and notify about arrival of guests at the door.

## Courses

### Rasa Official Certification Workshop - Rasa

- Dec, 2020

### Sequences, Time Series and Prediction - DeepLearning.AI

- Aug, 2020

### Natural Language Processing in TensorFlow - DeepLearning.AI

- Nov, 2019

### Convolutional Neural Networks in TensorFlow - DeepLearning.AI

- Oct, 2019

### High performance computing and Deep learning - IIT Roorkee

- Oct, 2018