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

Python Package - TextGenie

June 2021 - June 2021

A python library to augment text dataset and generate similar kind of samples, helping to train more robust NLP models.
Link - https://pypi.org/project/textgenie

Speech Synthesis & Speaker adaptation

Sep 2020 - Jan 2021

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

Personal Information

+918866603657
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https://hetpandya.github.io

in 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
★★★★☆

Feature Engineering
★★★★☆

Computer Vision
★★★☆☆

Git
★★★☆☆

Model Deployment
★★★☆☆

Web Scraping
★★★☆☆

Docker
★★★☆☆

IoT
★★★☆☆

Projects

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

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.

Languages

Hindi
Fluent

Gujarati
Native

English
Fluent

Projects

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.

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 Advanced Deployment Workshop - Rasa

- June 2021

Deep Learning with PyTorch: Zero to GANs - Jovian

- May 2021

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