# Darshan Jani

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## SUMMARY

Instead of something theoretical, write here about what you know, example – "*ML practitioner …..with experience in Python, SQL, Keras etc…..*"

## EXPERIENCE

### Computer Vision Intern

**Invisible Fiction** **Jan 2021 - Ongoing, Gujarat**

Cloth Size Estimation

• A System that takes a person's images as input and gives their body measurement for right fitting clothes seamlessly.
• When the system gets an image, the image is segmented for the foreground and background separation.
• Further, the image is compared with an existing object in the frame to calculate relative pixel per meter ratio and from pixel per meter and different other heuristic approach, the dimensions of different body parts are calculated.

### Machine Learning Intern

**Bhaskaracharya Institute for Space Applications and Geo-Informatics (BISAG)** **May 2019 - July 2019, Gandhinagar, Gujarat**

• Developed a GUI-based Optical Character Recognition system that converts scanned images of handwritten text into editable text formats by extracting features from the image with a pre-trained model and saves them into a .txt or a pdf file.

## PROJECTS

### Energy Efficiency Prediction System

October 2020

• Keywords - Sklearn, Numpy, Pandas, Flutter, AWS ec2, Pandas Profiling

• Random Forest model trained on different architectural features (eg. Relative Compactness, Surface Area, Wall Area, Glazing Area Distribution etc.) and deployed on a mobile app that predicts the energy efficiency of a building.
• Energy Efficiency is a function of different architecture parameters; it tells us how good a structure is in storing the thermal energy it has in terms of temperature. This will help structural engineers in building a more effective structure in storing the heat/cold temperature results in an overall reduction in the cost of heating, ventilation, and air conditioning of the building.

### Taxonomy Classification

Jan 2021 - Feb 2021

• Keywords – SQL, Sklearn, Pandas, Data Engineering, Data Analysis, Multi-Class classification (5500 classes)

• The aim of the project is to predict the tags (a.k.a. keywords, topics, summaries) of a question, given only the question text and its title.
• The dataset consists of 6M+ technical and non-technical questions collected from disparate stack exchange sites (mainly questions from Stack Overflow)
• Using Binary Relevance Method with One vs Rest Classifier to achieve more than 0.74 % f1 score across multi-class labels (5500 labels)

### Multi Label Gender and Accent Classification

September 2020

• Keywords - Sklearn, Keras, Twilio, Librosa, Pandas, Numpy, Dtale, Pydub, Flask, Imbleam

• Trained a Machine Learning model which takes voice note (.wav file) as input and classifies gender as well as the accent of the user.
• Deployed the model as WhatsApp chatbot using Twilio Sandbox and ngrok .
• The model has been trained on a highly imbalanced low dimensional real-world dataset of audio files which are scraped and preprocessed using different preprocessing techniques.

### Classify Song Genre using SpotifyAPI and Streamlit (Project Link)

August 2020

• Keywords - Streamlit, Heroku, Sklearn, Numpy, Pandas, Spotify API

• Created a machine learning classification model that uses music features to classify its Genre.
• Embedded Spotify API to automize the process of searching music, extracting its feature, and then predicting the genre based on features
• Created a GUI using Streamlet and hosted the whole project on Heroku platform. Project Link

## EDUCATION

**Bachelor of Technology**
Charotar University of Science and Technology • Gujarat • 2021 • 7.8/10

## SKILLS

**Proficient in Python: HackerRank Profile**

**Data Science: Explorary Data Analaysis, Data Preprocessing, Data Augmentation, Feature Engineering**

**Machine Learning: Model Tuning, Model Evaluation, Model Validation**

**Deployment: Docker, Heroku, Flask, Streamlit, AWS Lambda, AWS EC2**

## CERTIFICATIONS

**Machine Learning Scientist Career Track (Data Camp)**
DataCamp • Machine Learning, Data Preprocessing, Feature Engineering, Model Tuning, Deep Learning • May 2019

**Machine Learning - Coursera (Andrew Ng)**
Coursera • Machine Learning • Jan 2019

**Machine Learning Model Deployment**
Edunox • Docker, Streamlit, Flask , AWS Lambda, Heroku, AWS EC2 • March 2020

## INVOLVEMENT

**Data Science Hackathon**
Devang Patel Institute of Applied Technology and Research • Problem Statement Curator & Evaluation
• Helped the core Hackathon organization committee in finding an appropriate problem statement for the hackathon as well as in the evaluation of submissions.