

Raj Kapadia
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[GitHub](#), [Fiverr](#), [Upwork](#), [Youtube](#)
Python, NodeJS, Dialogflow, Tensorflow,
PyTorch, GCP

Lead AI & ML Developer with 5+ years of development and freelance experience in data scraping, data processing, data visualization, model development and deployment, image classification, Object detection using Tensorflow Lite Model Maker, Natural Language Processing, search engine development using Elasticsearch, chat bot development on Google Dialogflow, part time Youtuber, experience with Python+Flask and NodeJS+Express.

EXPERIENCE

1. Freelancing

I have been doing freelance work for last 5 years now, this work includes Chatbot development using **Dialogflow**, Image classification using **Tensorflow**, **Text Classification**, **back-end** development with **NodeJS + Express** and **Python + Flask**.

2. Google Dialogflow Trainer

I am a Google Dialogflow Trainer, I have conducted more than 10 Google Dialogflow workshops in small companies like eVision, Tech Avudis, etc., and Engineering colleges in Gujarat.

3. The Other Fruit

Lead AI & ML Developer, February-2022 to present

Development of different **AI/ML** products to better serve our customer base, technologies used are **Python**, **Tensorflow**, **Elasticsearch**, **Flask**.

4. Government Engineering College, Modasa, Gujarat

Assistant Professor, August-2016 to January-2022

Teaching students different subjects of Electrical Engineering and other tasks related to their development is the main task here, different technologies used in teaching are **MATLAB**, **C** for microcontroller programming.

5. Sankalchand Patel College of Engineering, Visnagar, Gujarat

Assistant Professor, August-2013 to July-2016

Teaching students different subjects of Electrical Engineering and other tasks related to their development is the main task here.

6. Torrent Pharmaceutical Ltd, Indrad, Mehsana

Executive Engineer, May-2010 to July-2011

HT & LT distribution and cable laying, installation of switch-gears for protection, VFD installation, etc.

PROJECTS

1. Developed a python package to train an **Object Detection** model, save the model, and a Python Flask API endpoint to serve the model as well.
2. **Face recognition** application, this application stores user face features on MongoDB and while matching the user, we use that features to compare the new image and provide the result, technologies used are Dlib, MongoDB, and served using Python Flask API.
3. Developed an **Image Similarity** search using **Tensorflow**, and **Elasticsearch** framework, it is served by Python and Flask APIs. The main features are to create index, insert document, and search document in Elasticsearch. It is used to check the ownership of the image/NFT. It also shows a comparative image if similar image found using **openCV**.
4. Developed an image search based on tags associated with images, this is used to show different NFT images from the tag search, technology used are Elasticsearch, Python, and Flask.
5. Development of voice as a password for two factor authentication, facility to enrol user, verify user, developed with Python, Elasticsearch engine, served using Flask APIs.

6. Text classification using BERT uncased model from Transformers and developed using Pytorch, served with Python and Flask APIs.
7. I have 3 years of experience with **Google DialogFlow** and Actions on Google, I have a [Fiver](#) and [Upwork](#) seller account where I have build **100+ Google Dialogflow Chatbots** to customers. I use **NodeJS** and **Python** as a backend to these chatbots.
8. I have a [Youtube](#) channel where I upload videos on different subjects related to **Google Dialogflow, Machine Learning, Elasticsearch**, etc.

EDUCATION

1. **Sankalchand Patel College of Engineering, Visnagar, Gujarat**
Master of Engineering with specialization in Power System, 2011-2013, CPI – 8.3
2. **Global Institute of Technology, Jaipur, Rajasthan**
Bachelor of Engineering in Electrical Engineering, 2006-2009, 67%