

# DHARMESH J. BHALODIYA

Life is about creating yourself not finding.

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Rajkot, Gujarat



## EXPERIENCE

Freelancer - AI / ML Researcher

TrueLine Labs, Rajkot

April 2017 – Ongoing

Rajkot, Gujarat

- Developed End to End Deep Learning models **DNN**, **CNN**, **YOLO** using **Tensorflow**, **Pytorch**, **Keras**, **Django**;
- Strong knowledge and expertise on Object detection, tracking and Classification from RGB and **HyperSpectral Images** ;
- Implemented **Disease and Land-cover** Classification model using **satellite data** in Agriculture domain;
- Compiled stock and time series data for **predictive modeling and analysis** by performing **web scraping** in python;
- Experienced in Market Basket (Pattern Mining) research and analysis with **CUDA**, **cuDNN on NVIDIA GPUs**;
- Published **10+ research papers** of state-of-art machine learning algorithms in International peer-reviewed journals and Conferences;

Freelancer - .Net Full Stack Developer

Krishna InfoTech, Rajkot

August 2016 – Ongoing

Rajkot, Gujarat

- Experienced in System Analysis, Design and Implementation of Web Application using C# and .NET frameworks (core);
- Strong knowledge and expertise on OOPs and Design Patterns;
- Developed and provided maintenance for **10+ .NET websites**, using .NET MVC, jQuery, HTML, and Bootstrap, Angular, Azure;
- Worked in an **Agile team of .NET developers** for a software development firm;
- Design and Developed APIs in **.NET Core** using code-first **WEB-API**, **EF**, **MSSQL**;
- Worked in ERP for finance, manufacturing and real estate domain;

Assistant Professor / Research Guide

Atmiya University, Rajkot

June 2014 – Ongoing

Rajkot, Gujarat

- Coordinator of Development for **ML/DL based Research and Innovation** at University;
- Teaching **Machine Learning**, **Deep Learning**, **Data Mining** and Programming subjects (.Net,Python,Java);
- Board of Study** member of B. Tech and M. Tech Programs, which have Courses like Computer Engineering and AI Data Science;
- Collaboration initiator of **GitHub**, **NVIDIA** and **LeadingIndia.ai** with University;

## EDUCATION

Ph.D. in Deep Learning (Pursuing)

Gujarat Technological University

September 2019 – Present

Thesis title: Crop Growth Analysis and Prediction from Hyperspectral Data using Deep Learning.

M. Tech. in Computer Engineering – Distinction

RK University, School of Engineering

July 2012 – June 2014

Thesis title: Novel Implementation of Frequent Itemset Counting Algorithm on Graphics Processor, sponsored by NVIDIA CUDA Center.

B.E. in Computer Science and Engineering – First Class

Gujarat Technological University

July 2008 – June 2012

## CERTIFICATES

Google Cloud Professional Data Engineer - (In Progress)

Google

May 2021

Google

Specialization in Deep Learning

deeplearning.ai

May 2020

Coursera

Specialization in Data Structures and Algorithms

UNIVERSITY OF CALIFORNIA SAN DIEGO

July 2020

Coursera

Practical Machine Learning with Tensorflow

Google, IIT Madras

Oct 2019

Swayam.gov.in

## PROJECTS

### Disease Classification on plant-leaves using Convolutional Neural Network

#### 📍 TrueLine Labs, Rajkot

- DataSet – Plantvillage dataset and Bing Images using Custom crawler;
- Description – Developed and proven high accuracy using CNN which consists of 10+ layers. Solved issues of overfitting using Data Augmentation techniques. I used multi-GPU for training and testing Neural Network;
- Techs: CNN, Python, TensorFlow, Keras, Matplotlib;

### Chart Classification using ResNet50 and Reinforcement Learning

#### 📍 TrueLine Labs, Rajkot

- DataSet – Chart Images of three categories (Bar, Line, Scatter) ;
- Description – This project utilizes Reinforcement Learning and ImageNet Pretrain weights for further ResNet50 training. This combination demonstrate improvement in accuracy by 10%;
- Techs: ResNet, CNN, Python, TensorFlow, Keras, Matplotlib;

### Solution Tracker – Visual Studio Add-Ins

#### 📍 BanyanTree Software Solutions

- Description – It tracks Solution/Project Opening and Closing events and present analysis;
- Techs: C# , SQLite;

### ERP for District Education Officer, Rajkot

#### 📍 District Education Officer, Rajkot

- Description – This is connecting school bodies to District authorities of Education Department. Authorities can generate and analyze 30+ Reports;
- Techs: ASP.NET 4.5, Bootstrap, WEB API 2.0, MSSQL, Azure;

### Auto Stamp – Affidavit Generator

#### 📍 Lawyer Association, Amreli, Gujarat

- Description – As per Gujarat Government rules and regulation, document Drafting and Formatting is Applied. This suites come along with 8 Different kinds of Affidavits. like change of names, Criminal certificate ,etc.;
- Techs: WPF, Metro UI, MigraDoc PDF, SQLite;

### ERP for Sales and Service Automation

#### 📍 KTM Techno Solutions, Rajkot

- Description – Automation of Sales and Service enquiries. It is Role based access to different part of ERP. and also generates Quotation PDF using WKHTMLTOPDF tool;
- Techs: .NET 5 (Core), WEB API, EF, WKHtmlToPDF, FCM, Angular 8, Azure;

## SOFTSKILLS

Learning Potential   Team Work   Organization   Flexibility  
Professionalism   Responsibility   MultiTasking

## PATENT

### Optimized Informative Smart Mirror

#### 📍 Atmiya University

- Application No : 202021047179
- Description : It display structured information based on person facial expression, it also control home appliances;

TensorFlow   NLP   Arduino  
Deep Learning

## STRENGTHS

- Programming Languages

Python   C#   C   Java

- Python Libraries

Numpy   Pandas   SciPy   Scikit Learn  
BeautifulSoup   Matplotlib   Seaborn  
Plotly

- Deep Learning Libraries

TensorFlow   Keras   PyTorch

- Neural Networks

ANN / DNN   CNN   LSTM   ResNet

- Machine Learning Algorithms

Decision Tree   AdaBoost   KNN  
SVM   Random Forest

- Development WEB

Python Django   ASP.NET   MVC  
Entity Framework   WEB API  
REST API   Bootstrap

- Analytics tools

Power - BI   Data Studio

- Database Tools

MSSQL   MySQL   MongoDB  
PostgreSQL

- Cloud Providers

Google Cloud   Amazon Web Services  
Microsoft Azure