

# DHARMESH J. BHALODIYA

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Rajkot, Gujarat



## EXPERIENCE

Freelancer - AI / ML Developer

TrueLine Labs, Rajkot

April 2017 – Ongoing

Gujarat, Rajkot

- Developed End to End **Deep Learning ANN and CNN** models for Image Classification tasks;
- Designed and developed analysis systems to extract information from large scale data;
- Predictive modeling and algorithm development for various research articles;
- Developed **data crawler** for auto-insertion of new entries;
- Compiled pricing data for **predictive analysis** by performing **web scraping** in python;
- Design and Development of ETL pipelines;

Freelancer - .Net Full Stack Developer

Krishna InfoTech, Rajkot

August 2016 – Ongoing

Gujarat, Rajkot

- Experienced in System Analysis, Design and Implementation of Web Application using C# and .NET frameworks (core);
- Strong knowledge and expertise on Object Oriented Programming (OOPs);
- Developed and provided maintenance for **10+ .NET websites**, using ASP.NET MVC, jQuery, HTML, and Bootstrap;
- 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**;
- Deliver Desktop software for Affidavit automatization in WPF, MetroUI, SQLite;
- Worked in ERP development of Manufacturing process management using WinForm, Reports;

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;
- Published 10+ research articles** in International peer-reviewed journals and Conferences;

## 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;

### 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, Crimiller 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;

## 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

## SOFTSKILLS

Learning Potential Team Work  
Organization Flexibility  
Professionalism Responsibility  
MultiTasking