DHARMESH J. BHALODIYA

Life is about creating yourself not finding.

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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 varios research articles;
- Developed **data crawler** for automated insertation of new entries;
- Compiled pricing data for **predictive analysis** by performing **web scraping** in python;
- Design and Development of ETL pipelines;

Freelancer - Dot-Net Full Stack Developer

Krishna InfoTech, Rajkot

📅 Augest 2016 – Ongoing   📍 Gujarat, Rajkot

- Very strong in C# as development language, .NET framework concepts and implementation and OOPs concepts;
- 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 app for Affidavit automization in WPF, SQLite;
- Worked in ERP development of Manufacturing process management using WinForm, Reports;

Assistant Professor / Research Guide

Atmiya University

📅 June 2014 – Ongoing   📍 Rajkot, Gujarat

- Coordinator of Development in **ML/DL based Research and Innovation** 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 has Computer Engineering and AI Data Science Courses;
- Collaboration initiator of **GitHub, NVIDIA and LeadingIndia.ai** with University;
- **Published 10+ research articles** in International peer-reviewed journals and Conferences;

EDUCATION

Ph.D. Pursuing in Deep Learning

Gujarat Technological University

📅 September 2019 – Present

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

M. Tech. in Computer Engineering – 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 08 – June 12

CERTIFICATES

Google Cloud professional Data Engineer - (In Progress)

Google

📅 May 2021   📍 Google

Deep Learning Specialization

deeplearning.ai

📅 May 2020   📍 Coursera

Data Structures and Algorithms Specialization

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-leaf using convolutional neural network

📅 January 2015 – November 2016   📍 Rajkot, Gujarat

- DataSet – Plantvillage dataset and Bing Images using Custom crawler;
- Description – Developed and proven higher accuracy using CNN network which consist 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

📅 January 2015 – November 2016   📍 Rajkot, Gujarat

- DataSet – Chart Images of three categories (Bar, Line, Scatter) ;
- Description – This project utilize Reinforcement Learning, Used ImageNet Pretrain weights for futher Resnet50 training. This combination demonstrate improved accuracy by 10%;
- Techs: ResNet, CNN, Python, TensorFlow, Keras, MatPlotLib;

Solution Tracker – Visual Studio Add-Ins

BanyanTree Software Solutions

📅 January 2012 – June 2012   📍 Vadodara, Gujarat

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

ERP for District Education Officer, Rajkot

District Education Officer, Rajkot

📅 July 2010 – September 2010   📍 Rajkot, Gujarat

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

ERP for Sales and Service automation

KTM Techno Solutions, Rajkot

📅 February 2013 – July 2013   📍 GIDC Rajkot, Gujarat

- Description – automation of Sales and Service enquiries. It is Role based access to different part of ERP. It also generate 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   KNN   SVM
Random forest

- Development WEB

Python Django   ASP.NET   MVC
HTML / CSS   WEB API   Bootstrap
REST API

- Analytics tools

Power - BI   Data Studio

- Database Tools

MS SQL   MySQL   MongoDB
PostgreSQL

- Cloud Providers

Google Cloud   Amazon Web Services
Microsoft Azure

SOFTSKILLS

Learning Potential   Team Work
Organization   Flexibility
Professionalism   Responsibility
MultiTasking