

DINESH JINJALA

Data Scientist & AI Nerd

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📍 Gujarat, India

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EXPERIENCE

Data Visualization & Python Coder

Fancensus

📅 March 2018 – Ongoing

📍 Bucks, UK

- Done animation for the two major event of the gaming. Those two event are Gamescon & E3.
- Made poster extraction algorithms to get only banner of movies from the Image.
- Made algorithm equivalent of Resemble.js in Python.
- I have did this work remotely.

Data Analyst & AI Scientist

DesPro Solutions

📅 Sep 2017 – Ongoing

📍 Surat, India

- Face mask generating software that uses the deep learning and SVM.
- Change detection in satellite image using PCA + NSCT decomposition.
- Natural Language Processing software for semantic analyzer.
- Image de-noising software using DCT and Multi Over-complete dictionary learning.
- Quadcopter simulation and Implementation using MATLAB.

Embedded System Developer

Winner Technologies

📅 Aug 2015 – Sep 2017

📍 Surat, India

- Implementation of Single axis board using TI's (Texas Instruments) motion controller driver and TI's piccolo series micro-controller.
- Two-axis board using Trinamic motion controller and Atmel's Micro-controller Mega Series.
- Three-axis board using Trinamic motion controller and TI's Controller specially designed for the Motion controlling application to make automated arm system for diamond polishing.
- Quad axis board using Nippon pulse motion controller and SAM series micro-controller.
- BLDC Control board using TI's micro-controller and motion controller driver.
- I have designed those PCBs as well as I have write firmware for those projects. I have reduces the power consumption and made them more powerful against Power Failure and illiteracy of handling the diamond cutting machinery.

Freelancing Work

Remote work

📅 Sep 2017 – Ongoing

📍 Surat, India

- I have increased the accuracy of the Sketch to Photo recognition using PCA + weight analysis using KNN algorithm.
- Build a system dynamics approach to the Keynes model using Simulink and Matlab.
- I have a developed and trained machine learning (Tensor flow and Keras) to predict the results of the roulette, is based on a recurrent NN (LSTM) with certain postulates and data that I contributed
- Lossless Image compression and Gabor Frame Implementation with different Sparse Coding.
- Domino game implementation using python and tkinter library.

LIFE PHILOSOPHY

"Your work is to discover your work and then with all your heart to give yourself to it."

MOST PROUD OF



Courage I had

to take a sinking ship and try to make it float



Persistence & Loyalty

I showed despite the hard moments and my willingness to stay with Winner Technologies after the acquisition



DesPro's Growth

through knowledge of AI and ML, gave raise to increment in profit



Extra-Ordinary Student

Most extra ordinary student at the under-graduate level

STRENGTHS

Hard-working (18/24)

Honesty

Motivator & Leader

AI

Machine Learning & It's Applications

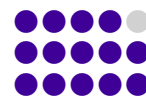
Data Science & Visualization

LANGUAGES

English

Hindi

Gujarati



EDUCATION

M.Tech. in Communication System

SVNIT Surat

📅 August 2013 – August 2015

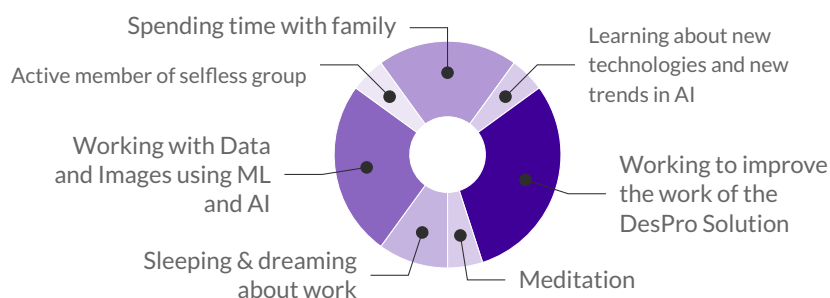
B.E. in Electronics Engineering

G.E.C Surat

📅 August 2009 – August 2013

- Image Forgery detection using SIFT.

A DAY OF MY LIFE



RESEARCH WORK

Image compression using Over-complete Dictionary Learning

Research at SVNIT

Aug 2014 – Aug 2015

Surat, India

- Pattern Based Dictionary Learning: I have proposed a new way to compress the Image using Classifier and Dictionary Learning algorithm. I have compared the results of that proposed algorithm to current algorithm JPEG2000 and JPEG.
- Great achievement that I have received in this research is the development of new modified recursive splitting Huffman algorithm. I have developed new Huffman algorithm which is robust to the error in communication channel (White Gaussian noise).
- The traditional Huffman algorithm is not robust to the error in the compressed data. That Huffman fails to recover errored data. So to test my proposed algorithm, I have to implement the new algorithm and finally, I have implemented modified recursive Huffman splitting coding algorithm.

Implementation of Turbo Encoder and Decoder

Mini Research at SVNIT

December 2013 – June 2014

Surat, India

- The aim of the mini project is to development of the Turbo encoder and decoder in Simulink and the analysis of the OFDM system. We measure the bit error rate at different SNR for AWGN channel with QAM modulation and 64 bit FFT.

Implementation of Prepaid Energy Meter

Research at GEC Surat

August 2012 – June 2013

Surat, India

- The aim of the project is to automate the prepaid billing of energy meter. In this project the front end is user friendly and the employees can work on this software with minimum knowledge of Computers. Employees can read the meter by sitting in the Office. For front end designing VB.net is used. This project is useful for billing purpose in Electricity board. Instead of going to every house & taking the readings, in this project by just sending an SMS we can receive the readings of the house and we can recharge the electric bill.

FINISHING SCHOOL PROGRAM

- Recent Advancements in Opticle Engineering, (SVNIT Surat 26th to 28th December'13).
- Recent Advancements in Antennas and Metamaterials, (SVNIT Surat 27th to 29th March'14).

FIELDS OF INTEREST

- Image Processing, Digital Signal Processing, Circuit Development, Mathematics.
- Artificial Intelligence, Machine Learning
- Data Science and Visualization
- PCB Design, Hardware designer
- Web Development & WebApp Development

SKILLS IN SOFTWARE

- MATLAB, Simulink & Python.
- \LaTeX , SCILAB & OCTAVE.
- NLTK, Spacy & Stanford CoreNLP
- dlib, tensorflow, keras
- Django, Angular, JavaScript
- Altium Designer, Altera Quartus

HOBBIES

- Solving Mathematics Puzzles.
- Playing Carrom.
- Portrait Painting.
- Solving Sudoku and Rubik cube.
- Reading about Science, Novels, Mathematics, Physics and Philosophy.

WORKSHOP

- Mathematical and Statistical Applications in Electro-Communication Systems, (SVNIT Surat 27th to 28th February'14).
- Amateur Radio Digital Information and Communication Technologies, (SVNIT Surat 8th to 9th September'14).

REFEREES

Prof. J.N Patel

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