



DHRUV JAIN

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EDUCATION

Indian Institute of Technology, Dharwad

Bachelor of Technology in department of Electrical Engineering.

2018 - Present

CPI: 8.09

Pace Junior Science College, Mumbai

Stream: Science

2016 - 2018

Percentage: 83.69%

HVB Global Academy, Mumbai

School

2003 - 2016

Percentage: 93.17%

CARRIER OBJECTIVE

To work for an organization which provides me the opportunity to improve my skills and knowledge to grow along with the organization objective.

PROJECTS

Machine Learning Image Classifier

To build a Convolution Neural Network to predict digits using the Kaggle Handwritten Digits MNIST dataset and a Cat/Dog Identifier using TensorFlow in python.

Data Filtering and Data Visualization

Project of transforming and cleaning raw data into its some useful form so that it can be fed to any neural network using python-pandas and understanding correlations in data using Heat-maps and other visualizing tools of python-cufflinks.

Image Processing and Object Detection using Deep Learning Techniques

Converting batch images into its rgb/grey form. Cropping, scaling, rotating, blurring images in python-OpenCV. Adding text, line, shapes, objects in images. Identifying face and eyes using haar-cascades.

Fourier Transforms on MATLAB

Verification of linearity, time-shift, convolution, real/imaginary even/odd properties of a continuous time varying signal using fft and ifft methods.

Maze Solver Bot

Project designed with help of Arduino and ultra-sonic sensors to make a bot which can escape a maze trap by using right side wall following technique.

Door Unlock System IoT-Based

Project aims at making a reliable automatic door unlock system using face detection using python-OpenCV on raspberry-pi.

Reinforcement Learning

Making computer player never loose in Tic-Tac-Toe game using AI in Python.

App Development

Making an Android calculator app in Android Studios using JAVA.

Database Coding

Made a program in JAVA for handling and easy management all details of student for school.

Game Maker

Made Flappy Bird type game in Game Maker using custom created graphic animations, also made a mod of python-based game BombSquad and hosted it on Google Cloud platform.

ModelSim Projects

Aims at forming a Boolean expression circuit on software using logic gates by VHDL programming and later dumping it in hardware like Arduino to understand outputs of expression and verifying it using Kmap techniques.

Ngspice Projects

Aims at understanding a complex electrical circuit on computer using spice language to understand its characteristic behavioral response. Involves BJT, MOSFET, Temperature Sensor, LED, Diode.

Simulink Projects

Aims at analyzing frequency response and stability of open/closed loop systems like a simple motor, LDR sensors.

TECHNICAL STRENGTHS

Modeling and Analysis

AutoCAD, Simulink, Ngspice, Modelsim, Solidworks, Mathplot, IPlotly, Seaborn, Arduino, Blender, MATLAB, SYMPY, LTspice, Android Studios, Python-Kivy, Linux, Google Cloud Platform.

Programming

C/C++, JAVA, JavaScript, Python2/3, VHDL, Spice, Visual Basics, HTML, GIT, MATLAB, Bash, LaTeX, SQL, PHP, Microprocessor 8085.

WORK EXPERIENCE

Indian Institute of Technology, Dharwad

Software Coder and Communication Manager

- Working on team project of Face-Detection Door Unlock Mechanism. Learned and implemented various aspects such as face detection using haar-cascades, image processing using OpenCV and TensorFlow neural nets. Also, learning the wireless communication between raspberry-pi and android device.

Milestone Industries, Mumbai

Site Engineer and Data Analyst Intern

- On-site internship under this manufacturing company. Learned and implemented various aspects such as quantity estimation, labour management and safety precautions. Also, understanding the database of the servers of the company.

ACADEMIC ACHIEVEMENTS

Won in Coding Competition Organized by Indian Institute of Information Technology, Dharwad.

Runners up in Game-Making Competition organized by Game Jam Titans.

Secured AIR 7514 in JEE Advanced among 200,000 students in open general category.

EXTRA-CIRRICULAR

Taking various courses on Coursera and Udemy Platform regarding Artificial Intelligence, Machine Learning, Deep Learning, Advanced Python.

Keen interest in topics such as gravity, black hole, quantum physics, cosmos, mythology, dark energy.

PERSONAL TRAITS

Believes in Openness, Conscientiousness, Extraversion and Agreeableness.

I can speak 5 languages: English, Hindi, Marwari, Gujarati, Marathi.

20 years young Technophile with a good academic record.

Strong motivational, management and leadership skills.

Ability to work as an individual as well as in group.

Highly motivated and eager to learn new things.

EE Sophomore with a passion of programming.

Declaration: All the information present in this resume is correct to the best of my knowledge.