



DHRUV JAIN

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AI Technophile, EE Junior with passion for Coding



EDUCATION

Indian Institute of Technology, Dharwad

Bachelor of Technology in department of Electrical Engineering.

2018 - Present

SPI: 8.78/CPI: 8.22

Pace Junior Science College, Mumbai

High School, 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 practice and improve my skills and knowledge to grow along with the organization objective for a developing community.

TECHNICAL STRENGTHS

Modeling and Analysis (Tools)

MATLAB, Simulink, AutoCAD, XAMPP, Spice, Arduino, Raspberry, Mathplot, IPlotly, Blender, SYMPY, Anaconda, Jupyter Notebook, Seaborn, Pandas, Spyder, Android Studios, Python-Kivy, BlueJ, Cloud Hosting, Eclipse, Flask, Pycaret, MS Office, Laravel, WAMP. C/C++, JAVA, JavaScript, Python2/3, VHDL, Spice, Visual Basics, HTML, GIT, MATLAB, Bash, LaTeX, SQL, PHP, Microprocessor 8085.

Programming

WORK EXPERIENCE

Smart India Hackathon, Kerala (2020)

AI Model Developer and Data Analyst

- Developing an Asset Performance Monitoring platform based on ML algorithms to calculate the real-time reliability and efficiency of the process plant equipment's such as motors with respect to the design data. Optimize parameters for maximum efficiency. We made an easy to use Interactive Tool for site engineers.

Milestone Industries, Mumbai (2019)

Backend Developer 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 to Develop and Host an interactive and responsive showcase website for the company to display its highlighted products online.

Indian Institute of Technology, Dharwad (2018)

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.

PROJECTS

Interactive tool to monitor motors efficiency

Building a Asset Performance Monitoring UI to calculate the real-time reliability and efficiency of Motors using an ML CatBoost Regressor model, alongside giving suggestions to increase efficiency.

Website Development

Project of building and hosting a interactive and responsive website to displays products for a company.

Machine Learning Image Classifier

Building 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.

ACADEMIC ACHIEVEMENTS

Runners up in Machine learning Competition organized by Smart India Hackathon. (2020)

Won Coding Competition in Indian Institute of Information Technology, Dharwad. (2019)

Secured AIR 7514 in JEE Advanced among 2,000,000 students in open general category. (2018)

Runners up in Game-Making Competition organized by Game Jam Titans. (2016)

EXTRA-CIRRICULAR

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

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

Interested in Sports: Cricket, Football, Swimming, Athletics, Chess and many more.

PERSONAL TRAITS

Believes in Openness, Conscientiousness, Extraversion and Agreeableness.

I can speak 5 languages: English, Hindi, Marwari, Gujrati, 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 thing.

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