॥ सा विद्या या विमुक्तये ॥
भारतीय प्रौद्योगिकी संस्थान धारवाड
Indian Institute of Technology Dharwad

# DHRUV JAIN

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*AI Technophile, EE Junior with passion for Coding*

## EDUCATION

**Indian Institute of Technology, Dharwad** *2018 – Present (SEM 6)*
Bachelor of Technology in department of Electrical Engineering. SPI: 9.38/CPI: 8.44

**Pace Junior Science College, Mumbai** *2016 - 2018*
High School, Stream: Science. Percentage: 83.69%

**HVB Global Academy, Mumbai** *2003 - 2016*
School. Percentage: 93.17%

## CAREER 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

**Programming Languages:** Python2/3, MATLAB, PHP, Java, C/C++, HTML, CSS, MySQL, GIT, Visual Basics, Bash, Shell, LaTeX, JSON, JavaScript, JQuery, AJAX.

**Modeling and Analysis:** Artificial Intelligence, Machine Learning, Deep Learning, Neural Networks, OpenCV, Speech Language Processing, MATLAB, Cloud Hosting and Management, Flask, Google Colab, Anaconda, Jupyter Notebook, Spyder, Seaborn, Pandas, IPoltly, Pycaret, Eclipse, BlueJ, Laragon, Laravel, Python-Kivy, Simulink, AutoCAD, XAMPP, Spice, Arduino, Raspberry, SYMPY, Android Studios, VS code, MS, Linux.

## WORK EXPERIENCE

**Milestone Industries, Mumbai** (May 2019 - August 2019) (Click for Link to Code).
*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.

## PROJECTS

**Smart India Hackathon, Kerala** (June 2020 - August 2020) (Link to Code).
*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.

**Indian Institute of Technology, Dharwad** (March 2018 - April 2018) (Link to Code).
*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.

**Machine Learning IPL 2020 Winner Predictor** (Link to Code).
Building a ML model to predict the winner of IPL 2020, achieved 81+% accuracy using ball by ball data of 2009 to 2020 IPL matches Kaggle dataset, made a ML for each of the 10 teams and predicted its scores.

**Interactive tool to monitor motors efficiency** (Link to Code).
Building an 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** (Link to Code).
Project of building and hosting an interactive and responsive website to displays products for a company.

**Machine Learning Image Classifier** (Link to Code).
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** (Link to Code).
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** (Link to Code).
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.

**Maze Solver Bot** (Link to Code).
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.

**Reinforcement Learning** (Link to Code).
Making computer player never loose in Tic-Tac-Toe game using AI in Python.

**App Development** (Link to Code).
Making an Android calculator app in Android Studios using JAVA.

**Database Coding** (Link to Code).
Made a program in JAVA for handling and easy management all details of student for school.

**Game Maker** (Link to Code).
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-CIRRUCULAR

Taking various courses on Coursera and Udemy Platform regarding Artificial Intelligence, Machine Learning, Deep Learning, Advanced Python, Web Development. Course Projects: (Link).
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 things.

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