

# DHRUV JAIN

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*AI Technophile, EE Senior with passion for Coding*

## EDUCATION

### Indian Institute of Technology, Dharwad (IITDH)

Bachelor of Technology in Department of Electrical Engineering

2018 – Present (SEM 7)

CGPA: 8.77/10

## TECHNICAL STRENGTHS

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

**Modeling and Analysis:** Artificial Intelligence: ML/DL, OpenCV, Natural Speech Language Processing, Cloud Hosting and Management: AWS/GCP/AZURE/Shared-Hosting, Google Colaboratory, Flask, Laragon, GitHub, VS Code, Linux, MS Office.

**Courses Taken:** Data structures and Algorithms, Programming Techniques, Computer Programming, High-Performance Computing, Computer Architecture, Introduction to Probability, Data Analysis, Calculus and Linear Algebra, Pattern Recognition and Machine Learning, Neural Networks, Deep Learning, Speech Processing, Optimization Theory and Algorithms, Information Theory.

## RESEARCH AND DEVELOPMENT

### Deep Learning based Radar Multi Target Tracking (August 2021 - ONGOING)

- Outperformed the existing state of the art, Interacting Multiple Model (IMM) filter by deep-learning techniques, in-order to predict, associate, and smoothen out the objects' trajectories in radar vicinity, with a sound accuracy.

## WORK EXPERIENCE

### BHARAT ELECTRONICS LIMITED (BEL) and IITDH (May 2021 - August 2021)

- Online Multi-Target Tracking Using Recurrent Neural Networks. The task was to provide TCN probabilistic predictions as well as smoothing of the objects' trajectories in radar vicinity using DL techniques datasets.

### Milestone Business Ventures LLP (MBVL), Mumbai (May 2019 - August 2019)

- Developed and hosted a showcase website for the manufacturing company to display its products online.

## PROJECTS

### Real-Time Speech Recognition System on FPGAs, IITDH (August 2021 - Present).

Implementing real-time end-to-end speech recognition system on hardware using deep learning models.

### Smart India Hackathon, Kerala (June 2020 - August 2020).

Developed a Monitoring platform based on ML algorithms to predict efficiency of motors in production.

### Indian Institute of Technology, Dharwad (March 2018 - April 2018).

Built a Face-Detection Door Unlock system using OpenCV and Haar-cascades on a raspberry-pi device.

#### Minor Projects:

- ML IPL 2020 Winner Predictor.
- Chess Keywords Voice Detection.
- Working with CNN and Autoencoders.
- Visualizing optimization algorithms.
- Voice Modulation MATLAB GUI.
- Image Processing, Object Detection.

## ACHIEVEMENTS

- Participated in 9th Inter IIT Tech Meet, IITG. Project: BOSCH's TRAFFIC SIGN RECOGNITION (2021).
- 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).

## PERSONAL TRAITS

- I can understand 5 languages: English, Hindi, Marwari, Gujarati, Marathi.
- PORs: Hostel Allocation team member, AI club member, Quiz club member, Tech team member.
- 21 years young CS Enthusiast that has ability to work as an individual as well as in a group.
- Strong motivational, management and leadership skills in any assigned task.
- Interested in Sports: Cricket, Football, Badminton, Basketball, Swimming, Athletics, Chess and many more.
- Taking various courses on Coursera and Udemmy Platform regarding AI, Python, Web Development.
- Keen interest in topics such as Gravity, Black Hole, Quantum Physics, Cosmos, Mythology.