DHRUV JAIN

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AI Technophile, EE Senior with passion for Coding

EDUCTAION

Indian Institute of Technology, Dharwad (IITDH) *2018 – Present (SEM 7)*
Bachelor of Technology in Department of Electrical Engineering CGPA: 8.77/10

TECHNICAL STRENGTHS

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

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 and smoothen out the trajectory of the object in radar vicinity, with good 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 use deep-learning techniques like Bi-LSTM, TCN to predict next state on constant velocity, constant acceleration, and constant turns 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, Gujrati, 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 Udemy Platform regarding AI, Python, Web Development.
- Keen interest in topics such as Gravity, Black Hole, Quantum Physics, Cosmos, Mythology.