RAHUL BARNWAL Dhanbad,Jharkhand
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EDUCATION

Indian Institute of Information Technology   **2020 − 2024**
B.Tech.in Electronics and Communication Engineering - CGPA - 9.14   *Kottayam, India*

The Coding School   **2020 − 2021**
Introduction to Quantum Computing Course   *Online*

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, Verilog
Technologies/Frameworks/Database/Tools: ReactJS, SQL, MongoDB, Numpy, Matplotlib, Seaborn, Pandas, Scikit-learn, Tensorflow, Lightkurve, Ubuntu, GitHub, Github Desktop, MATLAB/Octave

INTERNSHIP

- Research Intern:

  Worked as research intern under the guidance of Dr. Gopal Bhatta ↗ in the' field of High Energy Astrophysics particularly on "Blazar Variability".

- Intern at KrishTec ↗ : Majorly involved in developing and testing ML codes for ADAS application using Jetson Nano.

- Intern at Reflections ↗ : Worked on smart (IoT and Deep Learning based) ECG device

- Intern at Raman Research Institute ↗ : Worked on the software development of interface serial protocol for the Integrated Prototype Board

PROJECTS

Preferential Voting System: React based website backed by blockchain technology for creating and conducting polls

Design and development of co-processor for RISC-V processor for Fast Fourier Transform (ongoing)

Vanali : IoT-based real-time Car Diagnostic System using Raspberry Pi Board

ADAS system using "DetectNet" Neural Network and Jetson Nano Board

Bal - An IoT based truck overload detector with blockchain based database."

ACHIEVEMENTS

Winner of Kerala State Council for Science, Technology and Environment Techfest ↗   **2021**
                                                                                             Kerala

- Made an IoT device that can measure heart rate, temperature and spO2 level and send data over the cloud
- Bronze Prize Winner - Merit Certificate and cash prize of 10000 rupees. ↗

Secured 3rd position in Automotive Challenge conducted by BloomBloom   **2021-2022**
                                                                               India

- Made a prototype IoT device for automobile's diagnosis
- Offered by Reflections Automotive to incubate the prototype developed and 4 months paid internship with stipend 20000 rupees per month

Secured 2nd position in Machine Learning Hackathon by Reflections Info Systems   **2022-2022**
                                                                                          India

- Participated with my team and solved a machine learning problem statement given by organizers
- Received 50000 as prize money

PUBLICATIONS

- **(1st author) - Paper titled "Advanced Driver Assistance System for Autonomous Vehicles Using Deep Neural Network" accepted and presented in R10-HTC IEEE** ↗   **2022**

- **Paper titled "Exploring Short-Term Optical Variability of Blazars Using TESS" is accepted in MNRAS, Oxford University** ↗   **2022**

CERTIFICATIONS

• Verilog HDL: VLSI Hardware Design Comprehensive Masterclass - Udemy   • Introduction to Quantum Computing - Qubit by Qubit sponsored by IBM   • Data driven Astronomy - Coursera   • Programming for Everybody (Getting Started with Python) - Coursera   • The Arduino Platform and C Programming - Coursera   • Neural Networks and Deep Learning - Coursera