

# Ranit Pradhan

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## OBJECTIVE

Looking for a position in the field of Firmware where I can utilize my skills to further work towards personal and professional development and contribute towards the prosperity of the organization. Highly motivated and eager to learn new things.

## EDUCATION

- 2019-2023 **B.Tech in Electrical and Computer Engineering, Amrita Vishwa Vidyapeetham, Kollam, Kerala, India.**  
Ongoing CGPA: 8.03/10
- 2019 **Belda Gangadhar Academy, Paschim Medinipur, W.B., India.**  
Percentage: 78.93%
- 2017 **Jankapur High School(H.S), Paschim Medinipur, W.B., India.**  
Percentage: 86.14%

## EXPERIENCE

- November 2019 - January 2021 **Member at IEEE, Kerala Section, Fresher, Amrita School of Engineering.**  
I was an active IEEE member for 1 year in my college. As a fresher IEEE student, I had attended some conferences, webinars, online competitions and a one week ML internship.
- December 2020 - Present **Member at Team bi0s, Amrita School of Engineering.**  
I have been an active member of the community from 2nd year onwards. I actively take part in all events, contribute to projects, workshops and also help in organizing CTF events hosted by bi0s.

## TECHNICAL PROJECTS

- July 2020 **An Ultra-Portable Vis-NIR Spectrometer with an Integrated Light Source for Chemometric Applications.**  
This is a project for on-site material inspection and quality analysis of food and agricultural product require portable sensing systems. A mini spectrometer device is used for the measurements and analysis work based on machine learning and python programming. I was involved with performing statistical analysis of different compositions in medicines pills. Project Link:  
<https://iopscience.iop.org/article/10.1149/1945-7111/abc7e8/pdf>

## COURSE PROJECTS

- July 2020 **Light Weight, Low Energy OS, Contemporary Technologies Available for Wearable's.**  
The project was based on analysing light weight os. Project Link:  
[https://github.com/RanitPradhan/docs/blob/main/Group\\_5\\_OS\\_Report.pdf](https://github.com/RanitPradhan/docs/blob/main/Group_5_OS_Report.pdf)

## COURSES AND MOOC

- May 2020 **The Arduino Platform and C Programming.**  
Issuing Organization: University of California, Irvine.  
Certificate Link: <https://coursera.org/share/a6fdb8db507c58f7ae65a0ba2fb95eee>
- April 2020 **Working With JSON Data).**  
Issuing Organization: University of California, San Diego.  
Certificate Link: [https://raw.githubusercontent.com/RanitPradhan/Certificates/main/For\\_CV/JSON\\_data.JPG](https://raw.githubusercontent.com/RanitPradhan/Certificates/main/For_CV/JSON_data.JPG)

August 2020 **Data Visualization with Python.**

Issuing Organization: Real Python .

Certificate Link: [https://raw.githubusercontent.com/RanitPradhan/Certificates/main/For\\_CV/Data\\_Visualization.JPG](https://raw.githubusercontent.com/RanitPradhan/Certificates/main/For_CV/Data_Visualization.JPG)

## VOLUNTEER

January 2015 **Model Explanation.**

Contributed in a model explanation of an Automated railway alarming system if there is any fault on the train-line. Platinum Jubilee of Jankapur High School(H.S) [1940-2015]

December 2019 **Model Explanation.**

Contributed in a model explanation of an Automated water level alarming system. Centenary of Belda Gangadhar Academy [1919-2019]

## INTERNSHIPS AND CONFERENCE ATTENDED

January 2020 **Hacktoberfest 2019.**

Attended conference of Digital Ocean, an introduction to Git and GitHub. It is a two days workshop taken by amfoss student club every year.

October 2020 **Machine learning Internship, IEEE.**

An online internship based on Data Science and ML

Certificate Link:

[https://raw.githubusercontent.com/RanitPradhan/Certificates/main/Certificate\\_Me.jpg](https://raw.githubusercontent.com/RanitPradhan/Certificates/main/Certificate_Me.jpg)

## ACHIEVEMENTS

- Got Paschim Banga Vigyan Mancha award in 2009 and 2017 for getting 5th position in our district and 2nd position in my block respectively..

## Coursework

Core Courses Data Structure, Object Oriented Programming, Microcontrollers and Applications, Machines

Lab Courses Data Structure Lab, Object Oriented Programming Python Lab, Digital Manufacturing, Microcontroller and Architecture Lab.

## LANGUAGES

English Full Professional Proficiency

Hindi Native Tongue, Full Professional Proficiency

Bengali Mother Tongue, Full Professional Proficiency

Odia Others, Full Professional Proficiency

## COMPUTER SKILLS

OS Windows, Linux

Programming Languages Python, C, C++, Assembly

VCS Git

Other Skills Arduino, AutoCAD, Problem Solving, Playing CTFs, Pneumatics

## INTERESTS

Technical Reverse Engineering, Firmware, Embedded Systems, Robotics, Hardware, Artificial Intelligence, Machine Learning, Contributing to Open Source

Hobbies Travelling, Cricket

## PERSONAL DETAILS

DOB 3rd August, 2000

Current Residence	Kollam,Kerala, India
Status	Student