Ranit Pradhan

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2019-2023

Ongoing

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

**B.Tech in Electrical and Computer Engineering**, *Amrita Vishwa Vidyapeetham*, Kollam, Kerala, India.

*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

December 2020 **Member at Team bi0s**

Basically, bi0s is the Free and Open Source Software & Hardware club of my college. I have been an active member of the community from 2nd year onwards. I actively take part in all events and also help in organizing CTF events hosted by bi0s.

November 2019 **Member at IEEE, Amritapuri**

-January 2021 I was an active IEEE member for a year in my college. As a fresher IEEE student, I had attended some conferences,

webinars, online competitions and a one week ML internship.

# 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 produce require portable sensing systems. A mini spectrometer device is used for the measurements and analysis work based on machine learning and python programming. My part was to take measurement of different compositions of medicines pills and import the data to an excel sheet.

For more information checkout the 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**

This is basically a group project with my classmates of third semester. The primary point of this project is to describe and explain about the light weight operating system. To know the characteristics, advantages and disadvantages of light weight OS. We mainly concentrated on various kinds of Light weight, Low energy operating systems and their applications that are used in this era. Link:-

https://www.researchgate.net/publication/346968693\_Light\_Weight\_Low\_Energy\_OS\_Contemporary\_Technologies\_Available\_for\_Wearable%27s

# COURSES AND MOOC

May 2020  **The Arduino Platform and C Programming**

Issuing Organization: Coursera.

Certificate Link: https://coursera.org/share/a6fdb8db507c58f7ae65a0ba2fb95eee

## August 2020 Data Visualization with Python

Issuing Organization: Real Python.

Certificate Link: https://raw.githubusercontent.com/RanitPradhan/Certificates/main/Real%20Python/RP%20Data%20Visualization.JPG

## April 2020 Working With JSON Data

Issuing Organization: Real Python

Certificate Link: https://raw.githubusercontent.com/RanitPradhan/Certificates/main/Real%20Python/RP%20JSON%20data.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

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

October 2019 **Hactoberfest2019**

Attended conference of Digital Ocean, an introduction to Git & GitHub and there were some quizzes and competitions as well. It is a two days workshop taken by amfoss student club every year.

# 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

COMPUTER SKILLS

OS Windows, Linux

Programming Languages

Python, Assembly, C, C++

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 Aug, 2000

Current Residence

Kollam, Kerala, India

Status Student