



# ALAN ROSARIO FERNANDES

B.E. - Computer Engineering

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## BRIEF SUMMARY

Currently focused on developing expertise in data analysis and visualization, utilizing Python as a powerful tool for extracting insights from diverse datasets. Additionally, actively engaged in learning about Geographic Information Systems (GIS) and its applications, particularly through QGIS, to leverage spatial data in solving real-world challenges. Highly motivated to explore and embrace new techniques to adjust to any work that will be assigned to me. A proactive learner with an unwavering commitment to continuously expanding skills and knowledge in the dynamic field of data analysis and geospatial technologies. As a dedicated worker, I thrive on tackling tasks with perseverance and a strong work ethic, consistently striving to give my best in every project I undertake.

## KEY EXPERTISE

C QGIS Python Figma MySQL Front-End Web Development

## EDUCATION

### Don Bosco Institute of Technology Mumbai

2020 - 2024

B.E. - Computer Engineering | CGPA: 8.83 / 10.00

12<sup>th</sup> | HSC | Percentage: 74.46 / 100.00

2020

10<sup>th</sup> | SSC | Percentage: 84.40 / 100.00

2018

## INTERSHIPS

### CrEAST - Engineering Future

22 Jul, 2023 - Present

Key Skills: QGIS Microsoft Excel Teaching Spatial Analysis

During my internship at the MapMakr program, I had the privilege of being involved in a significant initiative known as "Engineering Futures – CrEAST." This unique training program is funded by Larsen & Toubro Ltd and has been powered by Don Bosco Institute of Technology.

As part of this program, I played a crucial role in motivating underprivileged students to pursue careers in STEM (Science, Technology, Engineering & Maths). Through various activities and workshops, we aimed to inspire and empower these students to explore the exciting world of spatial analysis and QGIS (Quantum Geographic Information System).

As an intern at MapMakr, I found immense satisfaction in contributing to this noble cause, fostering interest in STEM fields among underprivileged youth, and promoting the use of geospatial tools like QGIS for spatial analysis. This experience has not only enhanced my teaching abilities but also deepened my understanding of the importance of inclusive education and its potential to shape brighter futures.

## PROJECTS

### Gamification for Health Data Collection

Mentor: Mr. Imran Ali M. | Team Size: 3

Key Skills: Web Development MySQL

It is an innovative website aimed at empowering users to manage their health effectively. By creating a platform where users could answer health and lifestyle-related questions, we generated personalized results based on various formulae that we obtained by doing research work to help them analyze their health status. Utilizing SQL database, HTML, CSS, and JavaScript, I played a key role in building the user-friendly website. The interactive nature of the site was well-received by users. The project demonstrated the power of gamification in healthcare, motivating users and collecting valuable data to support informed decision-making for a healthier lifestyle.

### Green Cover Identification & Hotspot Analysis

Mentor: Ms. Sejal Chopra | Team Size: 3

Key Skills: Web Development QGIS Python MySQL

I contributed to the creation of an engaging website focused on forest-related issues, utilizing Geographic Information System (GIS) technology and geospatial data to produce interactive forest cover maps and insightful forest analyses. The project aimed to educate users about the current state of forests, encourage forest conservation and provide reliable data from credible sources. I played a key role in developing the website's functionality using SQL database, HTML, CSS, and JavaScript, ensuring a user-friendly experience.

The maps that have been displayed on the website have been made using spatial data obtained from trusted sources and QGIS (Quantum GIS). Jupyter along with forest data had also been used to make graphs based on trends of various types of forest in different states of India. The forest data used had been imported from the Forest Survey of India.

ASSESSMENTS / CERTIFICATIONS

Scrum Fundamentals Certified (SFC)

Key Skills: Scrum

Map Academy: get mapping quickly, with QGIS

Key Skills: QGIS

EXTRA CURRICULAR ACTIVITIES

- Security And Logistics

PERSONAL INTERESTS / HOBBIES

- Football
- Cooking

IMs

- Other - [www.linkedin.com/in/alan-fernandes08](https://www.linkedin.com/in/alan-fernandes08)

PERSONAL DETAILS

**Gender:** Male

**Marital Status:** Single

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**Date of Birth:** 16 Nov, 2002

**Known Languages:** English, Hindi, Marathi, Konkani

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