

Anirudh Prabhakaran

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EDUCATION

- **National Institute of Technology Karnataka, Surathkal** December 2020 - May 2024 (*Expected*)
Bachelor of Technology
Major: Electronics and Communication Engineering, Minor: Computer Science
Major CGPA: 9.13
- **Sardar Patel Vidyalaya, New Delhi** 2020
XII - CBSE
XII: 97.80%

EXPERIENCE

- **Google Summer of Code (GSoC) Contributor** June 2022 - August 2022
Public Lab
 - Worked on deprecating legacy code to improve the performance of the application.
 - Reduced a few DB query times to 50%, for a userbase of 500k+ users.
 - Tech Stack: Ruby on Rails, React, MySQL
- **IRIS Labs Lead** March 2021 - Present
IRIS, NITK
 - IRIS is the student-led ERP developed for automating all administrative and academic activities. User base of around 21k+ users, and 54M+ hits.
 - Labs is the research wing of IRIS, where we use cutting-edge technology like machine learning, IoT, blockchain, etc. to solve problems for the NITK community.
 - Working on Gyan Summarisation (ML) - consolidating advice for placement season from seniors' reports.
 - Contributed to developing various modules like Hostel and Mess Allotment, Academic Certificates, Career Development Center and Alumni Connect, and the maintenance of many other modules.
- **Machine Learning Intern** May 2022 - June 2022
Fourth Frontier
 - Worked on creating a new model based on a research paper that aims to determine cardiac age from ECG signals in real-time.
 - Several models, including ResNet-18, were repurposed for linear regression problems based on ECG data.
 - Tech Stack: Python, PyTorch, Jupyter
- **Software Engineering Intern** February 2022 - April 2022
AI4Bharat
 - Created a data accumulation and annotation platform, Shoonya, used by language experts to collect data on Indian languages.
 - Used by around 100 annotators since April 2022, with 120k tasks completed over 24 Indian languages and 3 project types.
 - Tech Stack: Python, Django, React, PostgreSQL

PROJECTS

- **Machine Learning for Quantum Computing:** A project to introduce juniors to principles and algorithms of quantum computing. After that, we attempted to find a solution for the qubit mapping problem using machine learning methods.
- **Optic Disc Segmentation and Glaucoma Detection:** A project to first segment the optic disc from various retinal fundus images, then classify these segmented images into glaucomic and non-glaucomic images. Models like U-Net were used for segmentation; custom CNN, AlexNet and ResNet were used for classification.
- **Lung Disease Detection:** A project to detect lung diseases in patients using chest x-rays through deep learning techniques, more specifically, falls under medical imaging. Multiple models, like AlexNet, VGG16 and ResNets, were used.

TECHNICAL SKILLS

- **Familiar:** Python, Tensorflow, PyTorch, Keras, Scikit-Learn, Django, Flask, Ruby, Ruby on Rails, SQL
- **Beginner:** Golang, Docker, ELK Stack, React, Qiskit