

# Advaith C A

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A fresh Computer Science Engineering graduate currently pursuing an MTech in Remote Sensing and GIS from IIRS, Dehradun.

## EDUCATION

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<b>Indian Institute of Remote Sensing</b> M.Tech in Remote Sensing and GIS (Satellite Image Analysis and Photogrammetry)	Dehradun, Uttarakhand 2023–Present
<b>Cochin University of Science and Technology</b> B.Tech in Computer Science Engineering, CGPA: 9.48/10	Ernakulam, Kerala 2019–2023
<b>Bhavans Vidya Mandir, Eloor</b> 12th Standard (CBSE), 93.4%	Ernakulam, Kerala 2018–2019
<b>Toc-H (R) Public School, Thiruvankulam</b> 10th Standard (CBSE), 93.1%	Ernakulam, Kerala 2016–2017

## EXPERIENCE

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<b>iHub-Data, IIIT-H</b> Project Intern	Hyderabad, Telangana Oct 2022–March 2024
<ul style="list-style-type: none"><li>– Roadex</li><li>– A project that aims to implement a smart traffic observation system, that detects traffic violations.</li><li>– I worked on making the ML models work better, i.e., improve the accuracy.</li><li>– I also worked on the Web Application, in both the front-end and the back-end.</li><li>– I Collaborated with a team of 4 people in making this web app, I coordinated the work between other interns.</li><li>– iRaste</li><li>– A project that implements a system which monitors busses in Telangana and Nagpur.</li><li>– I worked on automating report creation, and list validation.</li><li>– I did all the automation work myself, all scripts were written in Python (Pandas, Streamlit).</li></ul>	
<b>Six30 Labs</b> Intern	Bangalore, Karnataka Jun 2022 - Jul 2022
<ul style="list-style-type: none"><li>– Intruder Detection</li><li>– An intruder detection system, works using Face Detection and Face recognition.</li><li>– Made as a web-based application.</li><li>– Written in Python, using the microframework Flask for the backend, and MTCNN for face detection and a Dlib package for face recognition.</li></ul>	

## PUBLICATIONS

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- [1] A. Raj, S. Elayidom M, A. T B, C. A. Advaith, and A. Dinesh, “Design and implementation of an efficient text summarization method using self-organizing maps”, *International Journal of Advance Computational Engineering and Networking (IJACEN)*, vol. 10, no. 10, pp. 48–53, 2022.

## SKILLS

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- **Programming:** C, C++, Java, Python, JavaScript.
- **Web Development:** HTML, CSS, Flask, ReactJS, TailwindCSS, Bootstrap, Ruby on Rails.
- **Machine Learning:** Tensorflow, Scikit-Learn, PyTorch.
- **Data Analytics and Engineering:** Pandas, NumPy, MS Excel, Tableau.
- **Tools:** QGIS, ERDAS Imagine, ENVI.

## LANGUAGES

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- **English:** Fluent.
- **Hindi:** Intermediate.
- **Malayalam:** Native.

## PROJECTS

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See full list of projects on [github.com/advaitthca](https://github.com/advaitthca)

- Rigging Free Voting System (2023)
  - Implements a voting system free of Fake voting.  
[github.com/advaitthca/rigging-free-voting-system](https://github.com/advaitthca/rigging-free-voting-system)

- Text Summarization Using Self Organizing Maps (2022)
  - It was a research project, Concentrating on finding an extractive text summarization method.  
[github.com/abhinav-TB/som\\_summarizer](https://github.com/abhinav-TB/som_summarizer)

## EXTRACURRICULAR ACTIVITIES

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- Warspeed by Lightspeed, Devfolio May 2023
  - *Offline Hackathon on Generative AI.*
  - *Made a web app that lets users create 3D scenes using primitive shapes which can then be used to render high quality 2D scenes.*
- Pygames Hackathon, Devpost April 2023
  - *Winner in the category First 20 Fully Eligible Submissions to those outside of the US or Canada. (50 USD)*
  - *Made a partial clone of Pong game using Pygame, with twists of my own.*
- Starlet Hackathon February 2023
  - *Mentored a hackathon of 10 teams organized by “Mind Empowered,” a non-profit organization focused on empowering women and other gender minorities in technology.*
  - *Provided guidance and support to several teams, including offering advice on implementing their ideas and addressing technical challenges.*
  - *Helped to foster a collaborative and inclusive environment for all participants, and worked to ensure that the event was a success.*
- A session on ML and AI. December 2022
  - *I took an introductory class on AI and ML.*
  - *77 students from various branches enrolled.*
  - *Positive feedback from all who attended.*

- International Conference on Advanced and Emerging Trends in Computer Science - VIGYAAN November 2022

- *An international Conference Naipunnya Institute of Management and Information Technology.*
- *Presented a paper on **Analysis and Evaluation of Neural Style Transfer.***

## AWARDS AND NATIONAL EXAMINATIONS

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- GATE, Qualified. Scored 356 marks and got a rank of 10159. 2023
- Taramandala National Science Talent Search Examination, National rank 4. 2015