Advaith C A

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GitHub: github.com/advaithca

A fresh Computer Science Engineering graduate enthusiastic about continuing his education in the pursuit of a Master's degree in Computer Science.

Area of Interest

I am interested in Artificial Intelligence and Machine Learning as it has the capability to change the way everything works and it is a field not confined to one discipline. Most of my newer projects have been in AI-ML.

Education

Cochin University of Science and Technology — Ernakulam, Kerala
B.Tech in Computer Science Engineering, CGPA: 9.48/10 — 2019–2023

Bhavans Vidya Mandir, Eroor — Ernakulam, Kerala
12th Standard (CBSE), 93.4% — 2018–2019

Toc-H (R) Public School, Thiruvankulam — Ernakulam, Kerala
10th Standard (CBSE), 93.1% — 2016–2017

Experience

iHub-Data, IIIT-H — Hyderabad, Telangana
Project Intern — Oct 2022–Present

- Roadex
- A project that aims to implement a smart traffic observation system, that detects traffic violations.
- I worked on making the ML models work better, i.e., improve the accuracy.
- I also worked on the Web Application, in both the front-end and the back-end.
- I Collaborated with a team of 4 people in making this web app, I coordinated the work between other interns.
- iRaste
- A project that implements a system which monitors busses in Telangana and Nagpur.
- I worked on automating report creation, and list validation.
- I did all the automation work myself, all scripts were written in Python (Pandas, Streamlit).

Six30 Labs — Bangalore, Karnataka
Intern — Jun 2022 - Jul 2022

- Intruder Detection
- An intruder detection system, works using Face Detection and Face recognition.
- Made as a web-based application.
- Written in Python, using the microframework Flask for the backend, and MTCNN for face detection and a Dlib package for face recognition.

PUBLICATIONS

[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

- **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.

LANGUAGES

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

PROJECTS

See full list of projects on github.com/advaithca

Rigging Free Voting System (2023)
- Implements a voting system free of Fake voting. github.com/advaithca/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/$som_summarizer$

EXTRACURRICULAR ACTIVITIES

- Warpspeed 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.*
    - *Made a partial clone of Pong game using Pygame, with twists of my own.*

- 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

    - *A hackathon for game development using the Pygame library.*
    - *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

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