ADARSH DAS

Course : **B.E. (Hons.)**, Computer Science, 2025

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CGPA : 7.75

Subjects / Electives	Discrete Structure, C Programming, Data Structures and Algorithms, Microprocessing and Interfacing, Digital Design , Object Oriented Programming, Database Management Systems, Machine Learning, Logic in Computer Science
Technical Proficiency	Java, SQL, C++ Language, Rust, Django, C Programming, Git, Game Design and Development, GTK, Blender, OpenGL, Bash, Pandas, Python3

SUMMER INTERNSHIP / WORK EXPERIENCE

Data Analyst and Web Developer, National Centre for Polar and Ocean Research **May 2023 - Jul 2023**

Engaged in a dynamic combined internship opportunity with the National Centre for Polar and Ocean Research (NCPOR), where I undertook two significant projects. Firstly, I developed a proposal submission website to streamline the proposal submission and review process for researchers and scientists embarking on expeditions to the Arctic, Antarctica, Himalayas, and the Southern Ocean. Secondly, I created a Python program to perform data analytics on Black Carbon 6 samples collected from the Arctic, utilizing the Interquartile Range (IQR) method. This internship experience highlights my ability to deliver web development solutions and apply data analytics techniques to advance scientific research.

PROJECTS

Pneumonia diagnosis using chest X-ray - Machine Learning **May 2024 - Jun 2024**

The project leveraged vision transformers architecture for pneumonia diagnosis. The project also included implementing methods for improving the research paper on which it was implemented.

Malaria Cell classification using state-of-the-art Vision Tranformer - Machine Learning **Mar 2024 - Present**

The project utilized vision transformer trained on various processed images of the training data such as green channel, green channle canny filtered and klahe filter. The individual models where then combined using a ensemble methods. The validation set gave 99.7% accuracy and the testing accuracy was ~94%

Proposal Portal for NCPOR, Goa - Web development **May 2023 - Present**

Executed a comprehensive project in collaboration with the National Centre for Polar and Ocean Research (NCPOR), Goa, to streamline the proposal submission and review process for researchers and scientists undertaking expeditions to the Arctic, Antarctica, Himalayas, and the Southern Ocean. This project showcases my ability to develop efficient systems that enhance collaboration and facilitate the research proposal lifecycle, empowering scientists to focus on groundbreaking discoveries.to streamline

Comparative analysis of various machine learning models - Machine Learning **Feb 2023 - May 2023**

Engaged in an extensive project focusing on the comparison of various machine learning models. Divided into three distinct parts, the project aimed to identify the most effective models for specific tasks. Through rigorous experimentation and analysis, we evaluated the performance of different algorithms and explored their suitability for specific datasets. This project demonstrates my expertise in machine learning techniques, model evaluation, and hyperparameter optimization.

Markdown editor made in python - App Development **Jan 2023 - Present**

Developed an intuitive and dynamic Markdown editor specifically tailored for Linux using GTK-3 framework. Designed to enhance note-making efficiency and interactivity, this project showcases my ability to create user-friendly applications that streamline the content creation process. Leveraging my passion for Linux and expertise in GTK-3, I crafted a feature-rich editor with a sleek and modern interface.

Dockerized E-Commerce website with spring security and React JS - Web Development **Sep 2022 - Nov 2022**

A ready-to-scale, docker-ized web application that supported placing orders, order status, inventory management, Admin, Manager, and User functionality using and authentication using Spring Security and MySQL coupled with a React.js-based frontend. Utilized a custom-made system for user payments and had coupon code functionality and email notificationA ready-to-scale, docker-ized web application that supported placing orders, order status, inventory management, Admin, Manager, and User functionality using and authentication using Spring Security and MySQL coupled with a React.js-based frontend. Utilized a custom-made system for user payments and had coupon code functionality and email notification

COMPETITIONS

HereMaps Hackathon **Sep, 2023**

During the HereMap Hackathon, my team and I developed a one-touch app using Kivy, OpenStreetMap, OpenRouting, and Geocoder APIs. Our app swiftly locates emergency services, such as hospitals and police stations, making it easier for users to get help in critical situations. This innovative solution aimed to reduce response times during emergencies and showcased the power of technology in improving public safety.

TECHNICAL CLUBS

Member - Crux-The Programming and Computing Club **Sep 2022 - Present**

I have contributed to the club by

- Mentoring juniors
- Developing novel game engine