



Abhiram Dacharla

Roll No.:CS20B1069

B.Tech - Computer Science and Engineering

Minor in Humanities and social sciences

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Github | Website

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EDUCATION

| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
|--------------------|--|-----------------|--------------|
| B.Tech | Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram | 8.95 | 2020-Present |
| Intermediate | Telangana State Board of Intermediate Education | 974/1000 | 2018-2020 |
| School | The Board of Secondary Education, Telangana | 9.8 | 2017-2018 |

EXPERIENCE

- Research Internship** Remote
University of North Texas Feb 2023 – Ends May
 - Collaborated with Professor Kamesh Namuduri and a team to develop a traffic control framework for Uncrewed Aircraft Systems (UAS).
 - Extensive research was conducted on existing UAS traffic control systems to identify areas for improvement.
 - Authored the literature review section for the project, showcasing the ability to analyze and synthesize complex information into a precise and to-the-point written form.
- Placement Cell Coordinator** Chennai, Tamil Nadu
Placement Cell IIITDM May 2022 – Present
 - The coordination and training of the placement process and internships for the 2024 graduating class is carried out by the team.
 - Acted as a communicator between students and the placement cell to improve communication between the two parties as well as between students and businesses.
 - Maintaining accurate records and statistics related to placement activities and outcomes.
- Web Developer** Chennai, Tamil Nadu
Placement Cell Dev Team May 2022 – Aug 2022
 - Developed and hosted a new responsive website for the placement cell, IIITDM Kancheepuram.
 - Used Bootstrap, HTML, CSS, JavaScript, Node.js, Express.js, and FileZilla client.
 - Worked with a group of 12 which was led by college seniors.

PROJECTS

- Implement Interactive Image Segmentation** March 2023 - Present
Samsung PRISM program Remote
 - Conducting an extensive literature review of State-of-the-Art (SOTA) Interactive Image Segmentation techniques, including RITM, Inside-Out Guidance, ClickSEG, etc.
 - The findings and results were presented in a clear and concise manner to the team members and stakeholders.
- GUI for Statistical Analysis** Nov 2022
Tech Stack : Flask, Python, JavaScript, JSON, HTML, CSS Link to Repo
 - In this project, users can enter their data and perform statistical analysis on an interactive platform.
 - The implementation of the K-Means clustering algorithm on the user-selected attributes from the drop-down will be carried out. This will enable us to distinguish them and comprehend their connections.
 - A linear regression model predicts multiple variable values based on user input, while PCA minimizes the dataset's dimensionality and identifies the most relevant features that explain the variance in the data.
- Change Case Chrome Extension** Aug 2022
Tech Stack : JavaScript, JSON, HTML, CSS Link to Repo
 - Change Case is a chrome extension using which the case of selected text can be changed to lower case, upper case, and sentence case.
 - Users can employ it in 2 ways - by using a keyboard shortcut or by right-clicking on selected text to help improve accessibility.
 - Accepted in Stuck Between A Hack hackathon.

TECHNICAL SKILLS

- Programming:** Python, C++, C, HTML, CSS, MySQL
- Developer Tools:** Git, GitHub, Visual Studio Code, Jupyter Notebook
- Technologies/Frameworks:** Linux, GitHub, Bootstrap, PHP

KEY COURSES TAKEN

Machine Learning: Data Science, Pattern Recognition, Digital Image Processing.

Computer Science: Computer Networks, Operating Systems, Database Management System, Object Oriented Programming, Theory of Computation, Design and Analysis of Algorithms, Data Structures and Algorithms.

Mathematics: Calculus, Linear Algebra, Discrete Mathematics, Probability and Differential Equations.

ACHIEVEMENTS

- **Top 60**, in Turing Cup 2022, a national programming competition. *2022*
 - **Qualified**, for two consecutive years in the Ehipassiko industry open house innovation challenge conducted by the MaDeIT Innovation Foundation Technology Business Incubator, Chennai. *2021, 2022*
 - **An Elite+Gold certificate**, with a consolidated score of 96% was earned in Employment Communication: A Lab-Based Course. *March 2021*
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