Abhiram Dacharla

Roll No.: CS20B1069
B.Tech - Computer Science and Engineering
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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*