

Dacharla Venkata Abhiram

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
Masters, CSE	University of Texas at Dallas	-	2024-Present
B.Tech, CSE	Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram	8.93	2020-2024

EXPERIENCE

- Research Internship** Link to Paper
University of North Texas Feb 2023 - Sep 2023
 - Collaborated with Professor Kamesh Namuduri to develop an autonomous aerial traffic management system that plans optimal, collision-free paths through the airspace.
 - Extensive research was conducted on existing UAS traffic control systems to identify areas for improvement.
 - The research paper, based on the project, was accepted for presentation at the prestigious (IEEE ICC 2024) in Denver, CO, USA.
- SDE Intern** Chennai, Tamil Nadu
HCL Tech May 2023 - August 2023
 - Developed a user-friendly web application using Flask framework, focusing on blood bank services management.
 - Incorporated Flask, SQLAlchemy, and SQLite for secure user authentication and streamlined data storage.
- 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.

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.
- GUI for Statistical Analysis** Link to Repo
Tech Stack : Flask, Python, JavaScript, JSON, HTML, CSS May 2023 - Present
 - Developed an interactive platform for statistical analysis, enabling users to input data and gain insights.
 - Implemented machine learning techniques, including K-Means clustering and linear regression, to enhance data comprehension and prediction

POSITIONS OF RESPONSIBILITY

- Teaching Assistant - Pattern Recognition and Machine Learning** Chennai, Tamil Nadu
IIITDM Kancheepuram Aug 2023 - Present
 - Assisted students in understanding Python programming, and evaluated assignments and exams as a TA for Pattern Recognition and Machine Learning course under the guidance of Dr. Umarani Jayaraman.
- Placement Cell Coordinator** Chennai, Tamil Nadu
IIITDM Kancheepuram Aug 2022 - Aug 2023
 - Coordinated and facilitated the placement process of the 2023 passing out batch and internships for the 2024 graduating class.

TECHNICAL SKILLS

- Programming:** Python, C++, C, HTML, CSS, JavaScript, MySQL
- Developer Tools:** Git, GitHub, Visual Studio Code, Jupyter Notebook
- Technologies/Frameworks:** Linux, GitHub, LaTeX, Figma Bootstrap, Flask
- Libraries:** numpy, pandas, scikit-learn, OpenCV

ACHIEVEMENTS AND EXTRACURRICULAR ACTIVITIES

- Pothavaram Active Member**, contributing to community initiatives, and organizing village activities.
- 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