

PARTH DHYANI

pdhyani@umich.edu | (630) 506-4272

EDUCATION	UNIVERSITY OF MICHIGAN ANN ARBOR, MI <i>Bachelor of Science in Engineering in Computer Science, GPA: 3.51 / 4</i> Coursework: Data Structures and Algorithms, Linear Algebra, Computer Architecture, Cybersecurity, Usability and Needs Assessment, Discrete Mathematics <i>Dec 2021</i>
	ILLINOIS MATHEMATICS AND SCIENCE ACADEMY AURORA, IL <i>Diploma, Unweighted GPA: 3.96 / 4</i> <i>June 2018</i>
WORK EXPERIENCE	THE MICHIGAN DAILY NEWSPAPER ANN ARBOR, MI <i>Project Manager of Data Science and Visualization</i> <i>Data Scientist</i> <i>Oct 2019 – Present</i> <i>Oct 2018 – Present</i> <ul style="list-style-type: none">Gathered data for news articles through FOIA requests, surveys, and querying online databasesInvestigated, cleaned, aggregated, and compiled data sets through R, Tableau, and advanced ExcelCreated interactive charts, visuals, and maps through R initially, but transitioned to JavaScript libraries (D3 and Vega) for more functionality, versatility, and easier front-end integration with websitesProjects included tracking the demographics of enrollment at public universities over time, class enrollment by gender, and grade data for every class at the University of Michigan
	MULTIDISCIPLINARY DESIGN PROGRAM ANN ARBOR, MI <i>Remote Sensing Team Software Developer</i> <i>Jan 2019 – Present</i> <ul style="list-style-type: none">Developed a Python Tkinter GUI that interfaces with the team's C++ library for satellite data analysis that aims to be used by both researchers and the general publicAdded an advanced zoom functionality for the GUI to only zoom tiles instead of an entire image to save memory, in addition to creating panning and drawing capabilitiesWrote C++ software to create tree objects and randomized forests that are visualized in 3D using OpenGL, with a goal to eventually visualize forests from satellite imagery
	THE MORTON ARBORETUM LISLE, IL <i>Center for Tree Science Forest Ecology Researcher</i> <i>Sept 2016 – May 2018</i> <ul style="list-style-type: none">Researched the phenology (life cycle trends) of invasive and native plants in the fieldAnalyzed data through experimental statistics and utilized large data sets in both Excel and RStudied remote sensing data to compare the phenology of the greater forest to the undergrowth
LEADERSHIP	BLUELAB INDIA PROJECT ANN ARBOR, MI <i>President</i> <i>Oct 2018 – Present</i> <ul style="list-style-type: none">Helped scale our \$5 low-smoke cookstove to 1052 families in 10 rural Indian communitiesLed two travel teams to India in 2019 and 2020 for technical and social validation of the cookstoveManaged and motivated 30 team members, led meetings, and planned the budgetRecognized as a Michigan Business Challenge Seigle Impact Track Quarterfinalist
	CLUB TERRA AURORA, IL <i>President and Founder</i> <i>May 2016 – May 2018</i> <ul style="list-style-type: none">Developed the Green Ambassador Program (GAP). Trained high school students in environmental curriculum to hold educational activities for children at public libraries throughout IllinoisCreated curriculum, taught children about energy issues, and secured ComEd grant funding
ACTIVITIES	Docent, Tour Guide, and Administrative Assistant at the UM Museum of Natural History Science Olympiad Event Supervisor for the annual UM invitational <i>Oct 2018 – Present</i> <i>Oct 2018 – Present</i>
SKILLS	Applications: Microsoft Office, WordPress, Tableau, VirtualBox Languages: C/C++, Python, R, MATLAB, HTML/CSS, JavaScript; Proficient in German