

Vaishnavi Deshpande

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EDUCATION

University of Wisconsin–Madison — Senior, Graduating May 2023

Major: Computer Science and Math | GPA: 3.88/4.0

WORK EXPERIENCE

Data Science & Analytics Intern, John Deere, May 2022 – Present

- Using satellite imagery to arrive at meaningful information on yield metrics
- Using ML techniques ranging from TensorFlow and PyTorch to low-code approaches like AutoML
- Created beautiful and intuitive visualizations using Tableau
- Assisted in the Purdue Data Mine Project and compiled documentation for easy onboarding

Analytics Part-Time Student, John Deere, September 2021 – May 2022

- Using industrial automation software (Ignition) to streamline processes in the Harvester Works Factory
- Writing complex queries in SQL to create tables with information about incoming machines on the line
- Used PowerApps, PowerVirtualAgents, and SharePoint to explore chatbot solutions to submit work orders
- Investigate scalability options using iBeacon and Bluetooth Low Energy (BLE)

Data Science & Analytics Intern, John Deere, June 2021 – August 2021

- Used Computer Vision and Machine Learning to help conserve resources in the Harvester Works Factory
- Used tools like Python, OpenCV, Creo Parametric, and DataRobot
- Integrating AGILE methodology in day-to-day tasks
- Part of the Intern Committee on an Employee Resource Group

Artificial Intelligence Research Associate, VSFS Intern, U.S. Department of State, January 2021 – May 2021

- Part of an AI research team that collects data needed to train a custom AI model
- Front end development using JS and Python

Web Developer, Madison Security & Privacy Research Group, UW–Madison, January 2021 – January 2022

- Using tools like Jekyll and Sass along with HTML and CSS to create a clean and responsive website

Executive Board Member, India Students' Association, UW–Madison, August 2020 – January 2022

- Collaborating with other organizations and raising funds for socioeconomic causes
- Developing and running marketing campaigns using social media, graphics design and newsletters

SKILLS

- **Python I** (PyTorch, TensorFlow, AutoML, DataRobot)
- **Python II** (Flask, Matplotlib, sklearn, NumPy, Pandas, Geopandas, Sqlite3, BeautifulSoup, NLTK)
- **Data Visualization** (Tableau, Sentinel Hub, d3.js)
- **Java and C++** (OOPS, Data structures, Algorithms, JavaFX)
- **Website Development** (HTML, CSS, JS, React, JQuery, Jekyll, Flask, Django)
- **Graphic Design** (Adobe Photoshop, Adobe Spark, Canva) **Portfolio:** <https://vaishdesh2001.github.io/design.html>
- **Cloud Infra** (Heroku, PythonAnywhere, Google Cloud Platform, SSH, Linux Virtual Machines)
- **RDBMS concepts** (MySQL, Oracle) & **mobile application development** (Android Studio and MIT App Inventor)

PERSONAL INTERESTS

Graphic Design, Powerlifting, Photography, Combinatorics, Acrylic and Watercolor Painting

TOP PROJECTS

UW–Madison Course Career Mapper– Web application that maps 9000+ courses in UW–Madison to 1000+ career paths.

- Used **Flask framework** to integrate python (BeautifulSoup and Pandas) with the front-end implementation,
- Application deployed using **Heroku** <https://vdf Flask Heroku app.com/>

Climate Statistics Plotter– Pulls and plots climate statistics for a given city out of 4000+ available cities

- Extracted data using BeautifulSoup and plotted using Matplotlib
- Integrated through Flask and deployed through Heroku <https://climate-plotter.herokuapp.com/>