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://vdflask.herokuapp.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/

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