Vandita Patidar

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EDUCATION

Rensselaer Polytechnic Institute Troy, NY
Master of Science in Information Technology and Web Science. GPA 3.96/4 *May 2022 (Expected)*

Shri GS Institute of Technology and Science Indore, India
Bachelor of Engineering in Electronics and Telecommunication. GPA 3.65/4 *May 2020*

RELEVANT COURSEWORK

Data Structures & Operating System, Data Science, Data Analytics, Database Application & Systems, Intro to ML, Machine Learning, Capstone.

TECHNICAL STRENGTH

- **Languages**: Python, C, C++, R
- **WebDev** : HTML, CSS, JavaScript
- **Database**: MySQL, PostgreSQL
- **Machine Learning** : Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn, ggplot
- **Developer Tools** : Git, R-Studio, Visual Studio, Jupyter Notebook, Anaconda, Turbo C

WORK EXPERIENCE

Graduate Teaching Assistant Troy, NY
Rensselaer Polytechnic Institute *Jan - May 2022*

- Managed and facilitated knowledge building of JS, NodeJS, Angular, MongoDB, SQL, HTML and CSS in 50+ students during in-class sessions
- Ensured timely delivery of student grade books and constructive remarks

AI Research Extern Yorktown Heights, NY
International Business Machines (IBM) *May - Aug 2021*

- Gain knowledge about the previous work done by the research team and used new dataset to verify their work.
- Performed analysis and draw conclusion on new dataset using **Python(Matplotlib, Seaborn)** to gain insights, and share findings with team members.
- Iteratively evaluated various machine learning methods on new dataset to verify the research.

R&D *Summer Intern* Indore, India
Scientech Technologies *May - Jun 2019*

- Built an intelligent street light system that leverages sensor data to operate street lights accordingly.
- Deployed the system in Indore as a part of the pilot project by Indore Municipal Corporation.
- Reduced energy consumption by 75%.

PROJECTS

Hurricane Risk Evaluation: NASA Project *Sept - Dec 2021*

- Analyzed wind speed data from NASA and location data from Homeland Security to identify which power grids are more at risk during hurricane like situation.
- Used unsupervised machine learning algorithms on **Python**.

Exploration System for NY Gov Public Assistance Cases *Sept - Dec 2021*

- Developed an end-to-end web application which fetches data for NY Public Assistance Expenditures and gives customized options for exploration of data to the user.
- Worked with **PostgreSQL**, **MongoDB** for data storage and **HTML**, **NodeJS** for front-end development.

Flood Risk Evaluation: NIH/NASA Project *Jan - May 2021*

- Analyzed precipitation data from NASA and location data from Homeland Security to identify which healthcare facilities are more at risk due to high rainfall using unsupervised machine learning algorithms on **Python**.
- Designed an interactive dashboard to highlight the hospitals based on their risk category using **HTML**, **CSS**, **Geoapify API.**
- Research poster accepted in ESSOAr (Earth and Space Science Open Archive).

EXTRACURRICULAR

ERIDE NGO, *Volunteer* *Sept 2018 - Mar 2020*

- Taught more than 50+ technologically backward children to become digitally literate, Co-organized cleanliness drives.