Osho Priya

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EDUCATION

University at Buffalo, State University at New York (SUNY)	Buffalo, NY, United States
Bachelor of Science in Computer Science	*Feb. 2021 – June 2023*
Manipal Academy of Higher Education, Manipal	Manipal, Karnataka, India
Bachelor of Engineering in Computer Science	*Aug. 2018 – June 2020*

SKILLS, LEADERSHIP & ACHIEVEMENTS

Languages: Python, SQL, C, C++, HTML, CSS, Java.

Frameworks & Tools: Jupyter Notebook, Agile, Tableau, Jira, Scrum, Figma, StarUML, MS Access, MS Excel

Skills: Data Collection, Data Querying, Data Processing, Natural Language Processing (NLP), Data Mining, Pattern Recognition, Machine Learning, Database Management, Database Systems and Scaling, Operating System, Software Development Using Object Oriented Paradigm, Data Structures & Algorithms, Systems Programming.

Leadership roles: President UBSEDS ('21-'22), UBHacking Co-lead (2021), Mars Rover Manipal (2019), Management team - Moto Manipal (2019), Women in Aeronautics and Aerospace (WoAA) Volunteer (2020), Team lead - NASA L'Space NPWEE (2020), Team Lead - SSERD (2020), Key Organizer at the International Indian Rover Challenge (2019).

Awards & Recognition: Grace Hopper Scholarship '21; MAHE Colloquium Youngest Research Poster Presenter '19.

EXPERIENCES

Student Assistant
Sept. 2022 – April 2023

University at Buffalo — *Buffalo, NY*

- Leveraged Microsoft Excel to streamline data organization and management, resulting in notable improvements in workflow efficiency.
- Assumed responsibility for updating the book database, liaising with the supervisor and fellow assistants to ensure accurate and up-to-date information.
- Updated the book database, and communicated with the supervisor, and other assistants.

Data Analyst Intern
May 2021 – Dec. 2021

Geography Department, University at Buffalo — *Buffalo, NY*

- Programmed correlation analysis and found a strong correlation between sea-ice concentration and snow depth with a coefficient of 0.55 indicating the influence of Lake Erie ice cover on snow accumulation.
- Analyzed the data using linear regression. Determined that 1 unit increase in sea-ice concentration is associated with an increase of 0.016423 units of snow and 1 unit increase in precipitation is associated with an increase of 3.239470 units of snow.
- Concluded that the ice cover of lake Erie has the most impact on Buffalo snow, with lake-effect snow contributing the most to snow depth; explored the scope of further scientific investigation of this phenomenon.

Data Science Undergrad Researcher
May 2021 – Aug. 2021

Workforce Training - NASA's (L'SPACE) Mission Concept Academy — *Remote, USA*

- Designed mission statement, Concept of Operations (COO), major milestone schedule, verification and validation plans, risk mitigation, budget, and scheduling.
- Optimized ice-crystal extraction search using Bayesian Optimization and Kalman Filter.
- Evaluated that the optimization can help determine water-ice content in the top 1 meter of regolith to an accuracy of ∼+-1 % or better, or at a spatial sampling of ∼100m for a location in Permanently Shadowed Region (PSR).
- Identified that this technique will help data scientists generate advanced and more efficient algorithms for mapping and extracting water ice for future Artemis missions.

Data Analyst Intern
Oct. 2020 – Jan 2021

Society for Space Education, Research and Development (SSERD) — *Remote, India*

- Led and Managed team CHAAND (Collective Hive of Advanced Autonomous Navigation and Design) to design a Swarm Rover System to serve for mineral excavation and establish a mesh of lunar communication-network.
- Analyzed the pain points of the project.
- Accelerated the team's proposal for lunar communication network using Dispersion system of Swarm Technology through continous improvements (Kaizen).