# USHASHI PODDER

## GIS PROFESSIONAL | PROGRAMMER

### CONTACT

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### TECHNICAL PROFICIENCY

Operating System: Windows

Tools and technologies: Proficient in ArcGIS Desktop, ERDAS Imagine, MATLAB, HTML 5, CSS 3, JavaScript ES6, React.js, JQuery, APIs, Git, GitHub and Version Control.
Familiar with Python, C, R, Firebase, Oracle SQL, PostgreSQL, QGIS, AutoCAD, Microstation, Agisoft, MS Excel.
Learning: Node.js, REST, EJS, MongoDB. (The Complete 2021 Web Development Bootcamp", Udemy.)

### PERSONAL SKILLS

Creative
Reliable and professional
Thorough researcher with a strong background in academic research
Having good problem solving and presentation skills
Organized and adaptive to situations
Effective communicator
Team player and an educator
Fast learner
Motivated Individual

### INTERESTS

Reading Books
Programming and spatial analysis
Gathering knowledge about finance and investments
Painting
Travelling

### ABOUT

I am a Geoinformatics professional and a coding instructor imparting coding skills to students globally. Besides, I am a research professional having experience working on an Indian Naval project as well as various governmental projects. Keen learner, having an inclination towards GIS, programming, and data analysis. I consider myself to be a motivated and adaptive individual who fulfills her responsibilities with utmost dedication.

### EDUCATIONAL HISTORY

**SYMBIOSIS INSTITUTE OF GEOINFORMATICS**

M.Sc. in Geoinformatics
2017-2019

- CGPA - 8.28

**GOKHALE MEMORIAL GIRLS' COLLEGE**

B.Sc. in Geography
2014-2017

- First-class with Honours - 61.5%

### WORK EXPERIENCE

**CODING INSTRUCTOR: GAME AND APP DEVELOPMENT, SPACE TECH AND AI**
WhiteHat Education Technology Pvt. Ltd.| September 2020- Present

- Teaching students game and application development globally on various platforms like Visual Studio Code, Atom, P5 editor.
- Educating students about Git, GitHub, real-time databases, data visualization, and data analysis with Python.
- Assisting students to develop web and mobile applications using HTML, CSS, JavaScript, React.js.
- Attending regular training and bootcamps to remain updated with the curriculum as well as with the programming languages.
- Conducting PTMs on a regular basis.

**RESEARCH ASSISTANT**
TERI School of Advanced Studies | August 2019 - June 2020

- Worked on a maritime development project.
- Wrote scalable, robust, efficient, and easily maintainable MATLAB code to develop two softwares.
- Played a key role in the architectural and design decision for developing the UI of the softwares.
- Translated software requirements into stable, working, and high-performance softwares.
- Processed and analyzed satellite imageries using ERDAS Imagine, ArcGIS, QGIS, and MATLAB.
- Provided technical documents and presentations.
- Participated in code reviews and took practical GIS classes for master's students.

### GIS ANALYST INTERN
Terra Drone India Pvt. Ltd. | December 2018 - May 2019

- Worked on a project titled "Geospatial Applications of Unmanned Aerial System for the Inspection and Monitoring of Cell Towers."
- Description: The project aimed at the planning of telecommunication networks, preparing topographical maps to address encroachment issues with cell towers, and developing a web application to monitor cell tower defects and network operations.
- Besides, worked on various government GIS projects like the Andhra Pradesh Municipal Development Project, Satara Water Department Project.
- Maintained spatial databases in ArcGIS, QGIS, and MS Excel, processed and analyzed drone imageries in Agisoft, Microstation, AutoCAD, and ArcGIS.

### GIS RESEARCH INTERN
Regional Remote Sensing Centre-East, NRSC, ISRO | April 2018 - May 2018

- Worked on a project titled "Trends and behaviour of heat waves over Indian region using daily gridded (0.5°x0.5°) temperature data."
- Description: The project aimed at detecting heatwave incidences over the Indian region by sub-setting global meteorological data using R software.
- Worked on ERDAS Imagine, ArcGIS, and R software.
- Wrote the research paper which later got published in the journal, "Theoretical and Applied Climatology", Springer.

## PUBLICATION

Das, P.K., **Podder, U.**, Das, R. et al. Quantification of heatwave occurrences over the Indian region using long-term (1979–2017) daily gridded (0.5° × 0.5°) temperature data—a combined heat wave index approach. Theor Appl Climatol 142, 497–511 (2020). https://doi.org/10.1007/s00704-020-03329-7

## ACTIVITIES AND ACHIEVEMENTS

- Panelist at "Student's Hackathon" at WhiteHat Jr.

- Participant at Hackathon, 2020 at WhiteHat Jr.

- Certified in Game, iOS, and Android Application Development by WhiteHat Junior & Byju's Future School.

- Nominated for the award of the Chancellor's Gold Medal in Symbiosis International University-2019.

- Recipient of **PG Merit Scholarship** for securing 1st position in Semester III examination from Symbiosis International University (SIU).

- Recipient of the certificate of participation in Institutional; Cultural, Social, and Placement Activities from Symbiosis International University.

- Completed a certificate course in C programming language from MITCON, Pune.