

Chamarthi Sarat Chandra

Ph D. Student
Interdisciplinary Centre for Water Research
Indian Institute of Science, Bengaluru

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Links

Github:carbform
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Scholar: Sarat Chandra

Skills

OS
GNU/Linux, Windows
LANGUAGES
Python, HTML, CSS
OTHERS
MATLAB, LaTeX, Markdown, Git,
VS Code, Adobe Illustrator

Coursework

Surface Water Hydrology
Groundwater Hydrology
Finite Element Method
Partial Differential Equations
Water Quality Modelling
Atmospheric Dynamics
Math Methods in Climate Science

Work Experience

MARCH, 2016 - MAY, 2019
SUBJECT MATTER EXPERT
Chegg Inc. (India)
Part-Time/Freelancer

JUNE-OCTOBER, 2016
GRADUATE ENGG. TRAINEE
L & W Constructions Pvt. Ltd.
Bengaluru

Education

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| 2019-NOW | PhD | Interdisciplinary Centre for Water Research (ICWaR) Indian Institute of Science, Bengaluru |
| | CGPA : 9.3 | |
| | Advisors: Prof. M. Sekhar and Prof. V. Venugopal | |
| 2017-2019 | M.Tech | Water Resources Engineering National Institute of Technology, Rourkela |
| | CGPA : 9.84 | |
| | Advisor: Prof. K. Khatua | |
| 2012-2016 | B. Tech | Civil Engineering MVGR College of Engineering, Vizianagaram |
| | Percentage : 87 | |
| | Advisor: Prof. S. Purushottam | |

Projects

2021 **Machine Learning Solutions for Reservoir Storage Prediction.**
As a member of team AQRITY, I worked on extracting and processing geo-spatial data using Python.

2018-2019 **Master's Thesis : Analysis of apparent shear and turbulence in meandering compound flows**
Investigated the effects of compound flows on the apparent shear stress distribution on and discharge in meandering compound channels. An experimental flume was fabricated and turbulence parameters were studied.

2016 **Bachelor's degree project: Pervious concrete using supplementary cementitious materials**
We incorporated supplementary materials such as silica fume and fly ash into the mix design process and came up with a more sustainable version of pervious concrete.

Achievements/Awards

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|------------|--|---|
| 2021 | 2nd Place in WRI- WAVE2WEB Hackathon | As a team member of AQRITY, Won \$10000 |
| 2020 | Prime Minister's Research Fellowship | MHRD |
| 2020 | Institute Gold Medal for the Best Postgraduate | NIT, Rourkela |
| 2020 | Department Gold Medal | Dept. of Civil Engineering, NIT, Rourkela |
| 2020 | Prof. R.K Behera Memorial Award | NIT, Rourkela |
| 2014, 2015 | Silver Medal / Scholarship | Dept. of Civil Engineering, MVGR College of Engineering |