Roshini Sreenivas

ENVIRONMENTAL DATA SCIENTIST

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PROFILE

Driven and dynamic Research Scientist with a multi-disciplinary background in Environment Sciences, Ecology and Biotechnology. Offering four years background as researcher, policy analyst, writer, data scientist, recordkeeper and project coordinator, always pursuing ways to streamline, improve or optimize processes.

SKILLS

Python, R, SQL, NLP, ML, Writing SOPs, Field Research, Writing Scientific Papers, AGILE, GitBash (command line), Hypothesis testing, A/B tests, Parametric and non-Parametric tests, Tableau, Matplotlib, Plotly, Seaborn, Big Data (Hadoop, Spark), Modelling, CNNs, RNNs

EDUCATION

BrainStation | Diploma Candidate, Data Science
SEPTEMBER 2021 - DECEMBER 2021, TORONTO, CANADA

University of Cologne | Master of Sciences, Environmental Sciences
2015 - 2018, COLOGNE, GERMANY

PES Institute of Technology | Bachelor of Engineering, Biotechnology
2010 - 2014, BANGLORE, INDIA

EXPERIENCE

Intern | Newcomer Youth Green Economy Project (NYGEP)
OCTOBER 2021 – PRESENT, TORONTO, CANADA

- Toronto and Region Conservation Authority (TRCA) initiative, funded by Immigration, Refugees and Citizenship Canada, that is helping to produce new leaders in conservation

Environmental Consultant (Freelance) | Cloud SynApps Inc
SEPTEMBER 2021 – PRESENT, TORONTO, CANADA

- Parsing O. Reg 241/19 for the tech team building an IT solution for the new Emissions Act (EPS) for the Ontario government

Environmental Technician | Center for Climate Change Research
MAY 2021 - AUGUST 2021, TORONTO, CANADA

- Reviewed published research papers across multiple areas of climate change
- Reported findings from research in a succinct manner
- Researched the diatom 'Didymosphenia geminata', scientific paper in final stages of preparation for publication

Research Associate | University of Bahrain
DECEMBER 2017 - DECEMBER 2019, SAKHIR, BAHRAIN

- Built Bahrain's first Anaerobic Digestion laboratory from scratch including sourcing and designing all laboratory equipment, including the digesters
- Designed and implemented SOPs required to operate the laboratory in accordance with accepted international standards
- Organized the International Conference WESII (Water and Energy Sustainable Innovation and Industry Conference)
- Conducted an Environmental Impact Assessment on Bahrain's biggest landfill by analyzing the quality of the soil, water and air in and around the site, to ensure compliance with government safety standards

PROJECTS

Prediction of crop extinction based on climate stressors | Data Scientist
OCTOBER 2021 – DECEMBER 2021, BrainStation, CANADA

Collected data pertaining to environmental stress factors like emissions, temperature, sea level and will build a time series model to forecast the extinction time of crops

Assessment of waste management practices in Bahrain | Lead Researcher
DECEMBER 2018 - MARCH 2019, UNIVERSITY OF BAHRAIN

Collected data pertaining to **land, air and soil quality** around the largest landfill in Bahrain, the paper was presented at the Sardinia 2019 – 17th International Waste Management and Landfill Symposium