

Data Science for Sustainability

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Cover Feature:

Five Latest MCDM Techniques to solve Decision Making Problems

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New App Added : [Energy Consumption Indicator](#)

New App Added : [Water Consumption Indicator](#)

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Tutorials : MCDM

- **Multi Criteria Decision Making Techniques(MCDM)**

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- [Weighted Sum Method](#)
- [Weighted Product Method](#)
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Tutorials : AI

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- **Optimization Techniques**

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- [Constraints](#)
- [Classification](#)
- [Linear Programming](#)
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- **Geographic Information System(GIS)**

- [Terminologies](#)
- [Digitization Process](#)
- [GPS](#)
- [Coordinate Systems](#)
- [Attribute Tables](#)
- [Geo Referencing](#)
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Project Ideas

- **Smart Harvester for Extreme Climate**
 - An app which by retrieving the local weather information can predict the potential of the area for harvesting specific crops
Area of Application/Consumers : Cultivators, Urban Farmers
- **Micro-Submarine for Water Quality Monitoring**
 - Sub-Water Marine System For Under Water Quality Monitoring.
Area of Application/Consumers : Shipping, Tourism, Hotel, Water Park Industries.
- **Flood Forecasting with BIRR and Wildfire Impacts**
 - Flood Forecasting Models considering BIRR and Wildfire Impacts.
Area of Application/Consumers : Energy, Insurance, Tourism Industries

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New Techniques

- **Determination of Objective Weights Using a New Method Based on the Removal Effects of Criteria (MERECE)**
- Proposed by Mehdi Keshavarz-Ghorabae et.I.(2021),
- **Main Purpose** : New method for weighing criteria,
- **Category** : MCDM
- [Click here for more details.](#)
- **Ordinal Priority Approach (OPA) in Multiple Attribute Decision-Making.**
- Proposed by Younes Ataei et.al.(2019).
- **Main Purpose** : Considers Group Decision Making Approach,
- **Category** : MCDM
- [Click here for more details.](#)
- **IMproved Elephant Herding Optimization (IMEHO)**
- Proposed by Wei Li et.al.(2020).
- **Main Purpose** : Considers Group Decision Making Approach,
- **Category** : Optimization Techniques.
- [Click here for more details.](#)

[Suggest a New Technique](#)

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Software and Apps

- **Electricity Conservation Indicator**
- A simple indicator to monitor your use of electricity. It measures and compare your electricity use with the help of a scale of usability. The value of the indicator inversely varies with conservation of electricity. That means more the ECI more measure is required to reduce electricity consumption.
- [Click to Use](#)
- **Water Conservation Indicator**
- A simple indicator to monitor your use of water. It measures and compare your water use with the help of a scale of usability. The value of the indicator inversely varies with conservation of water. That means more the WCI more measure is required to reduce water consumption.
- [Click to Use](#)
- **DataYar Webapp 1**
- The Data Yar Webapp will help you to post requirement of data for your projects or if a certain set of data is available with you, you can share the same through this app.
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About Us

About Data Science in Sustainability A Baipatra Website

- The "Data Science in Sustainability" tries to educate about different data science techniques for the optimal management of water and energy resources which will ensure sustainability.
- *We educate you such that you become innovators and make the World sustainable.*

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