भारतीय प्रबंध संस्थान कोषिक्कोड
Indian Institute of Management Kozhikode
Globalizing Indian Thought

Good Governance and Big Data

July 01 - 05, 2025

What is the program about?

We live in a world where sizeable data about minuet behaviors of millions of individuals is recorded for a wide variety of purposes. Such copious amounts of data are often called 'big data'. This program will train you on how to use big data for good governance. More specifically, the program will follow a three-stage approach. In the first stage, you will get to know big data as a 'general purpose technology' that can be put to use across many domains. At this stage, we shall be concerned with questions like 'what is big data', 'why use big data', 'what are the coding skills needed to use big data', and 'what are the software and hardware capabilities required to effectively handle big data'.

In the second stage, you learn about specific applications of big data that have improved governance across India and other parts of the world. These applications come from domains as varied as the management of traffic flow, delivery of health and education services, flood control, climate change, and response to crime. We will note the state of affairs before the use of big data, how big data solved a domain specific problem, the challenges involved in using big data, and measurable change in outcomes that resulted from using of big data. We will also develop the managerial capabilities that are needed to create and lead a team of data scientists to solve problems of governance.

In the third stage, you will work on assignments in which you will use big data to solve a governance related problem. Our coders will provide you with technical support needed to process data, formulate algorithms, and generate solutions. This unique experience of working with coders with help you understand the challenges involved in translating 'a governance problem' into 'a problem that can be solved using big data'.

What are the learning outcomes?

(1) You will be introduced to software and hardware capabilities that are needed to use big data.

(2) You will learn how to build and manage a team of data scientists

(3) You get to know specific examples of the use of big data in improving governance in India and other countries

(4) You will use big data to solve a governance problem of your interest

Who should apply?

(1) Indian Administrative Service officers and other civil servants involved in policy making

(2) Data scientists involved in public policy and governance

DAY 1

I – What is 'Good Governance'?

II – What is Big Data?

III – Why use Big Data?

IV– Case Study: The use of big data in improving delivery of public services in Tamil Nadu

DAY 2

I – Introduction to programming I

II – Introduction to programming II

III - Introduction to Python programming language

IV - Introduction to Python libraries for big data

DAY 3

I – Introduction to agent-based modeling

II – Agent-based models and big data

III – Using big data to deliver better health and education

IV – Using big data to manage floods

DAY 4

I – Using big data to manage crime

II – Big data and smart cities

III – Using big data to formulate intelligent 'lockdowns' to contain pandemics

IV – Big data and climate change

DAY 5

I – Lab using bid data with a coder I

II – Lab using bid data with a coder II

III – Creating and managing a team of data scientists: challenges and possibilities

IV – Securing big data

Facilitator:

Prof. Vipin P Veetil -
Chair Assistant Professor, Economics

Programme Fee:

Rs. 90000 (Residential),
Rs. 80000 (Non-Residential)
GST @ 18%

Cancellation Policy:

Joining instructions will be sent to the selected candidates10 days prior to the start of the programme. Kindly do not make your travel plans unless you receive the confirmation email from IIM Kozhikode. If the programme is cancelled, the participants or the sponsoring organization will have the option to either get the fee paid by them adjusted against any other future management development programme(s) of the Institute or get a refund. IIM Kozhikode will not be liable for any other expenses incurred by the organization or the participant. Also the transaction fee will not be refunded.

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