DATATHON
DATA ANALYTICS COMPETITION

Data to Decisions : Subjectivity to Objectivity
Faculty of Decision Sciences

College of Defence Management

College of Defence Management

COLLEGE OF DEFENCE MANAGEMENT
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https://cdm.gov.in

Sponsors and Participants

Themes : Data Analytics

TRADE AND TARIFF- CHANGING GEO-ECONOMICS

1

DYNAMICS IN GLOBAL MIL EXPENDITURE- IMPLICATIONS FOR INDIA

United States		$732 751
China		$261 082
India	$71 125	
Russia	$65 103	
Saudi Arabia	$61 967	
France	$50 119	
Germany	$49 377	
United Kingdom	$48 750	
Japan	$47 609	
South Korea	$43 991	
Brazil	$26 946	
Italy	$26 890	
Australia	$25 912	
Canada	$22 298	
Israel	$20 565	

1949 - 2020

2

INDIAN STATES PERFORMANCE – TOWARDS VIKSIT BHARAT 2047

VIKSIT BHARAT
Idea of India as a Developed Country

GDP
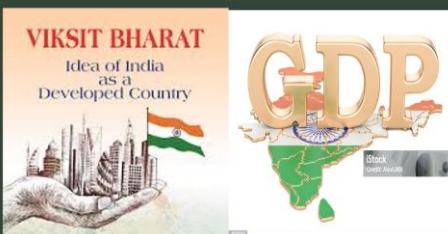
3

MEETING ENERGY DEMANDS – SOLUTIONS FOR A GROWING INDIA

4

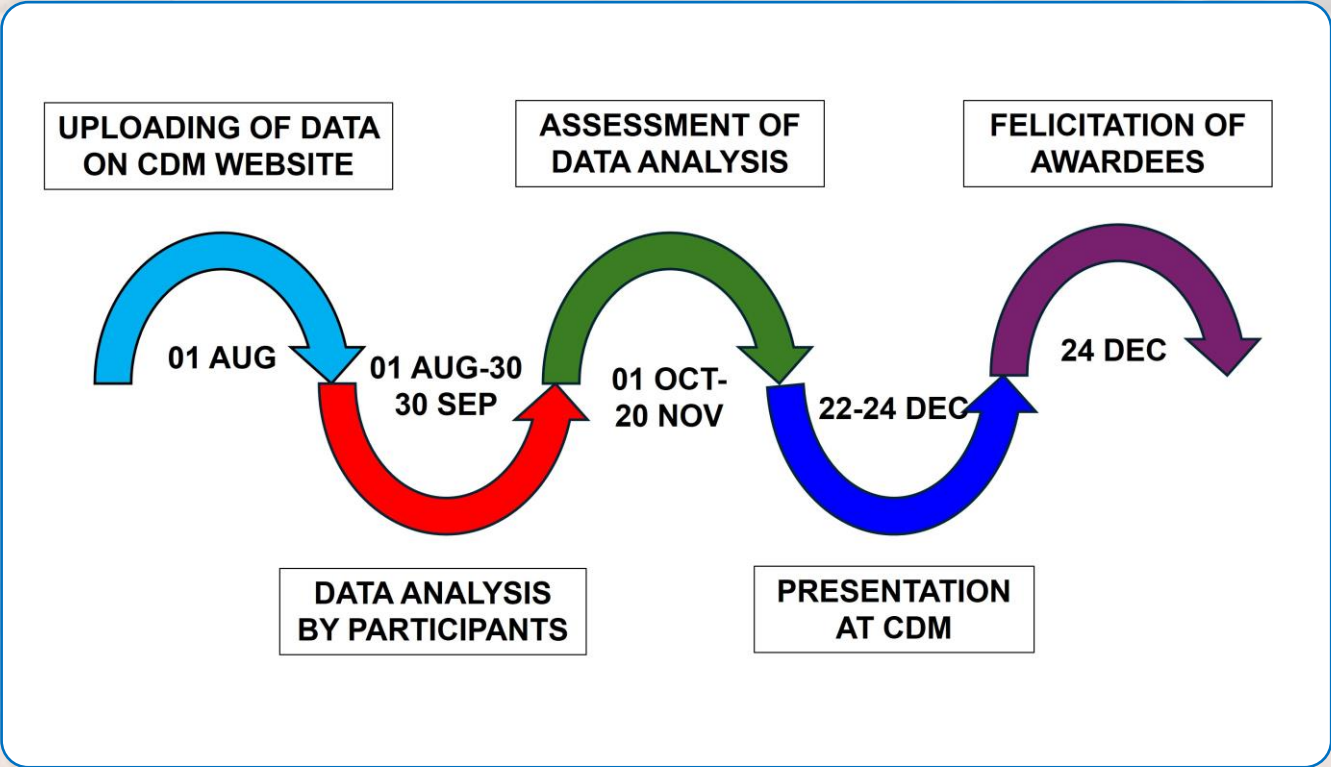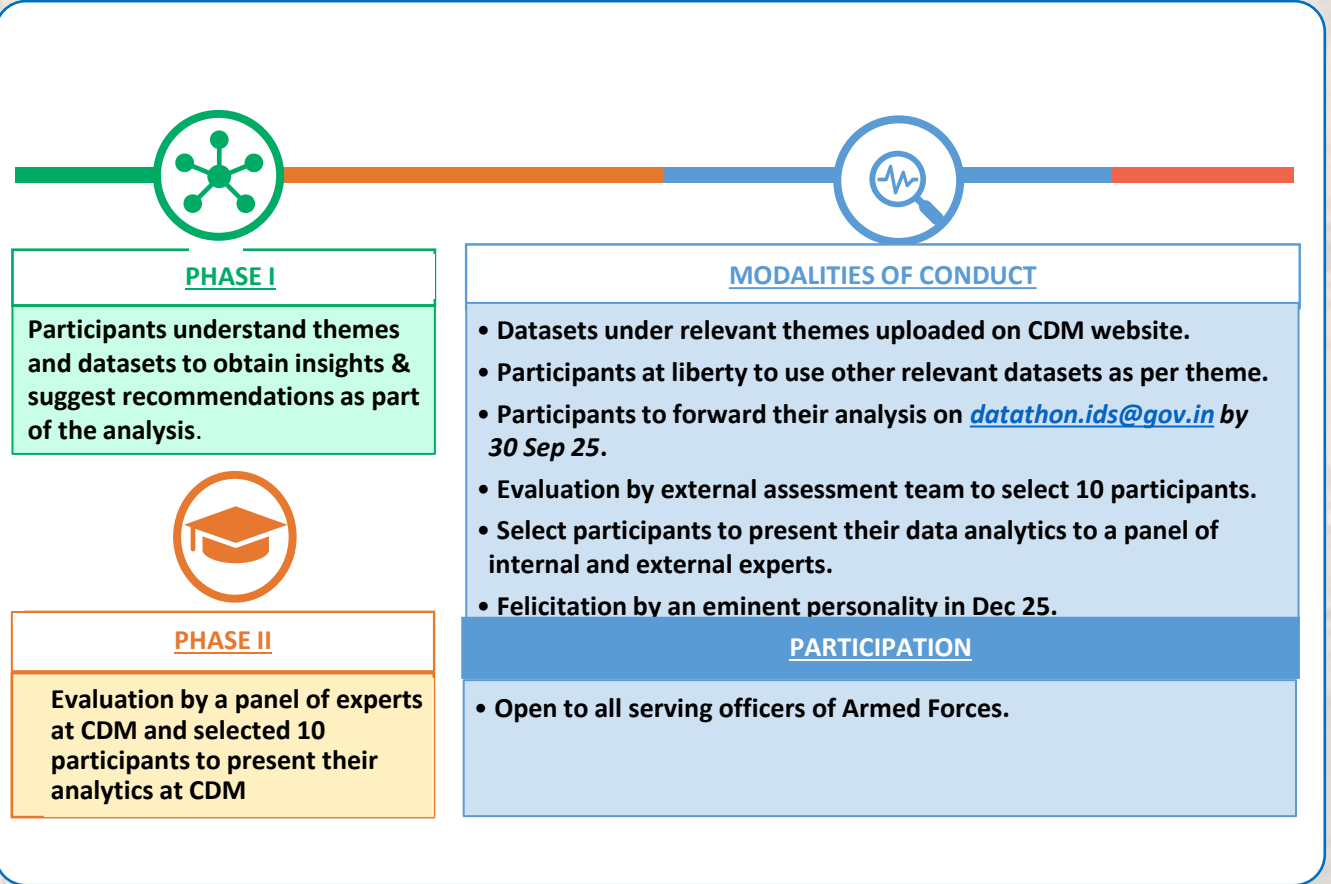**To register send mail to** *datathon.ids@gov.in*

A Glimpse

DATA ANALYTICS : KEY TO DECISION MAKING & OPERATIONAL EFFICIENCY

• The College of Defence Management has been at the forefront of driving data to decision by inculcating data culture and IT competencies in mid-level Armed Forces Officers for the past several years. Sound and effective decisions, supported by reliable data, usually determine military operational success. Recent rapid advances in electronic instrumentation, military sensors and platforms, digital storage, and communication systems across militaries have led to generation of large amounts of data. This deluge of digitized information provide commanders and their staff innumerable analytic opportunities to extract hidden insights in a wide diversity of situations and aid them, especially, in asking relevant questions, developing plans, and making decisions.

• The inaugural Datathon Competition was conducted by the CDM in 2023 which was well received by the environment. Realizing the potential of Data Analytics, College of Defence Management has sponsored Data Analytics Competition as a proof of concept of how data analytics and visualization tools can offer newer operational and administrative insights based on data available in open domain. Subsequently, such projects on data driven decision support dashboards on operational and internal security matters can be taken up at unit/formation levels.

• Apparent to all of us, we in the Armed Forces, have not fully realised the strategic value of data. Data is still residing in silos and data parochialism is rampant. Decisions are primarily based on experience, precedents and gut feeling. Data analysis, if any, is of descriptive nature at best, otherwise mostly superficial. As a result, daily large volume of data is lost or forgotten.

• Considering the need of the hour to infuse a data centric culture, College of Defence Management had mooted the idea of Data Analytics Competition. Such a competition will be organized with a sole objective of paving the way for not only diagnostic but also predictive and prescriptive data analysis. The overall effort and focus being to aid military commanders and staff in asking relevant questions, developing solutions and make data based decisions.

Timeline of Conduct

| UPLOADING OF DATA ON CDM WEBSITE | ASSESSMENT OF DATA ANALYSIS | FELICITATION OF AWARDEES |

01 AUG   01 AUG-30 30 SEP   01 OCT-20 NOV   22-24 DEC   24 DEC

DATA ANALYSIS BY PARTICIPANTS

PRESENTATION AT CDM

Scope

PHASE I

Participants understand themes and datasets to obtain insights & suggest recommendations as part of the analysis.

MODALITIES OF CONDUCT

- Datasets under relevant themes uploaded on CDM website.
- Participants at liberty to use other relevant datasets as per theme.
- Participants to forward their analysis on _datathon.ids@gov.in_ by _30 Sep 25_.
- Evaluation by external assessment team to select 10 participants.
- Select participants to present their data analytics to a panel of internal and external experts.
- Felicitation by an eminent personality in Dec 25.

PARTICIPATION

- Open to all serving officers of Armed Forces.

PHASE II

Evaluation by a panel of experts at CDM and selected 10 participants to present their analytics at CDM

Genesis

The military is constantly facing new challenges and evolving threats. Data analytics can be used to improve the accuracy & effectiveness of military intelligence, by identifying trends in enemy activity and helping to predict future actions. With Data proliferation, it is more important than ever to have skilled personnel who can analyse this data. Data analytics can have a significant impact on military decision-making by providing military leaders with insights and information that can improve their decisions.

Aim

To proliferate the culture of decision-making based on data analytics and to identify effective ways of analysing data to improve the accuracy and speed of decision-making.

Datathon Objectives

To enable data driven decisions through predictive and prescriptive analysis
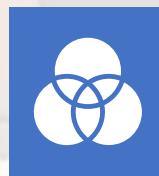
To infuse data centric culture across all Services

To empower military commanders and staff in field formations

To offer better & deeper operational and administrative insights based on data