



DATATHON

DATA ANALYTICS COMPETITION

Data to Decisions : Subjectivity to Objectivity

Faculty of Decision Sciences



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College of Defence Management





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College of Defence Management

COLLEGE OF DEFENCE MANAGEMENT
SAINIKPURI (PO) SECUNDERABAD - 500094
Telefax: +91-40-27115741 | +91-40-27111731

<https://cdm.gov.in>



Sponsors and Participants



Themes : Data Analytics



CONTESTED AND CONGESTED



Satellites growth in Outer Space

GLOBAL CONFLICTS - SUPPLY CHAIN IMPACT

SHIP ROUTES DISRUPTED
- Strait of Hormuz & Red Sea blocked
- Major delays in transit times

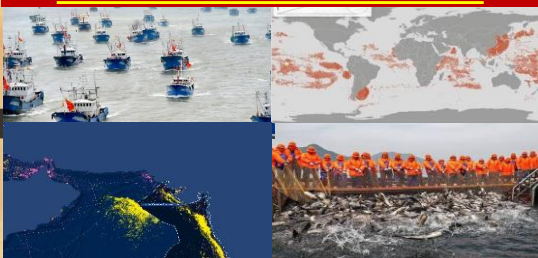
SURGING FREIGHT COSTS
- War-Risk Insurance Spikes
- Sharp increase in shipping rates

AIRSPACE ISSUES
- Flight diversions & longer routes
- Rising air cargo rates

OIL PRICE VOLATILITY
- Oil supply threats
- Fuel costs climbing



CHINESE FISHING PROLIFERATION



INDIAN MARKETS RESILIENCE



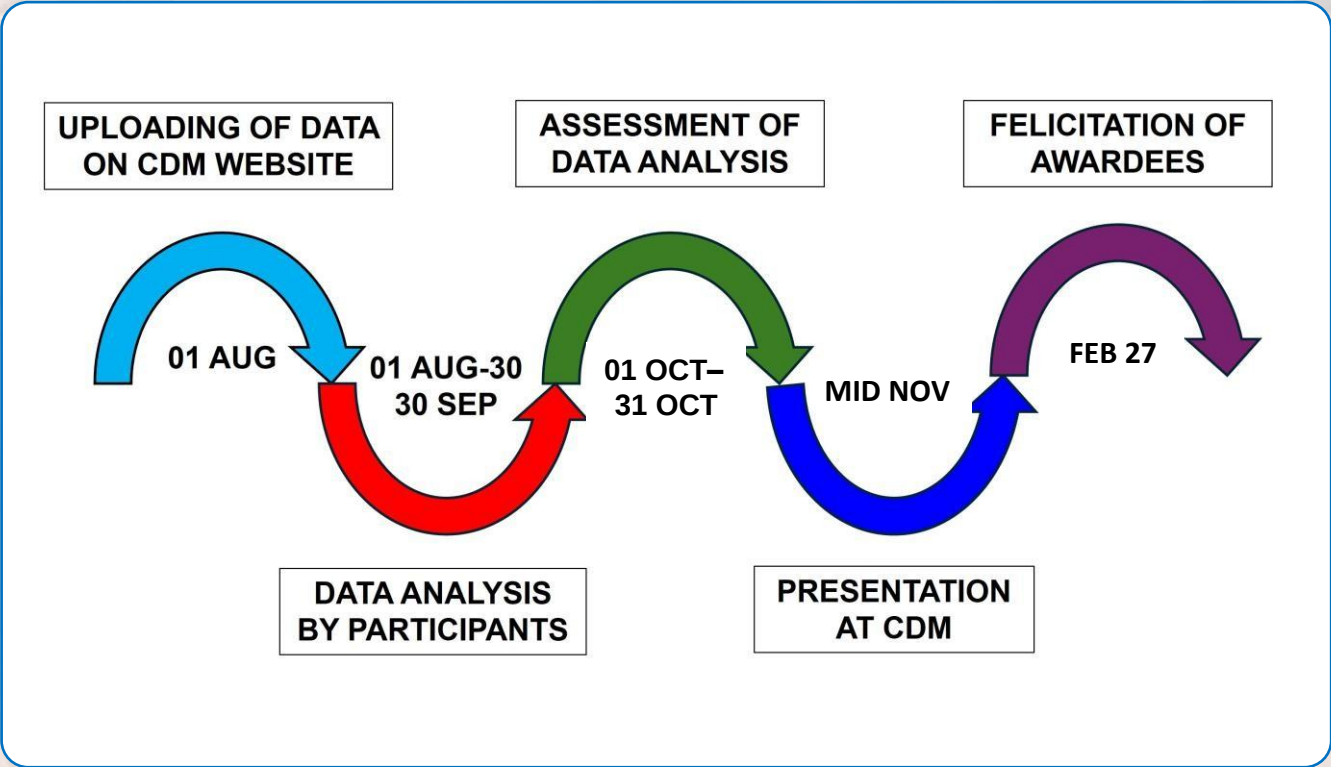
To register send mail to datathon.ids@gov.in



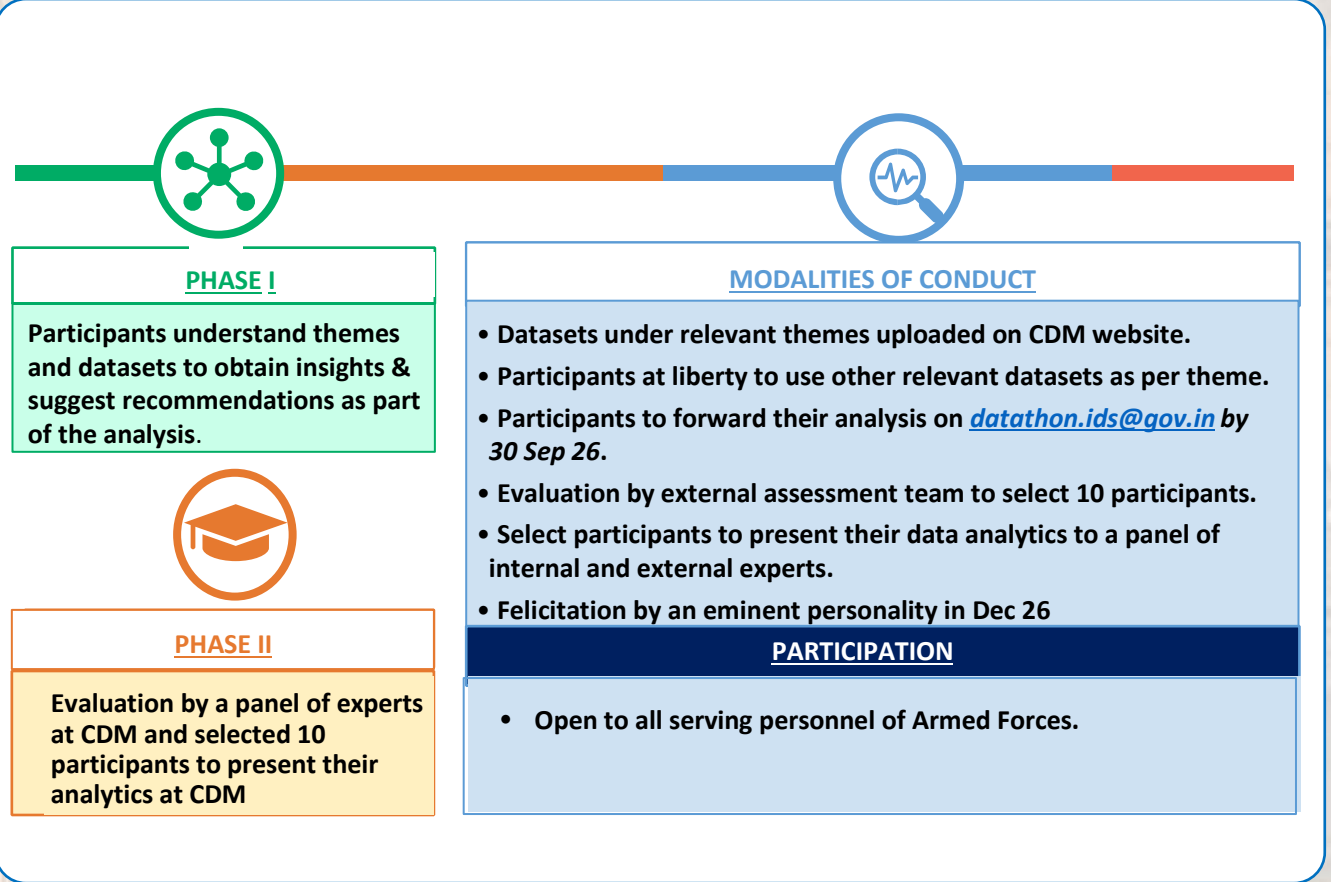
DATA ANALYTICS : KEY TO DECISION MAKING & OPERATIONAL EFFICIENCY

- 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



Scope





Genesis

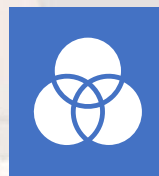
The military is constantly facing new challenges and evolving threats. Data analytics can be used to improve the accuracy & effectiveness of military intelligence, by identifying trends in enemy activity and helping to predict future actions. With Data proliferation, it is more important than ever to 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