

COURSE CONTENT:

AI-DRIVEN DATA ANALYTICS AND FINANCIAL MODELING IN GOVERNMENT SECTOR
(03rd to 14th August 2026)

1. Foundations of Public Financial Management

- Overview of Public Finance and Governance
- Role of Big Data in Public Administration & Governance
- Data Sources in Government (Administrative Data, Government Data Repository, Open Data Sources etc.)

2. AI and Data Analytics in Governance

- Introduction to Artificial Intelligence and Machine Learning
- Data Management and Cleaning Techniques
- Exploratory Data Analytics using Advance Excel, Tableau and Power BI
- Data Visualization for Policy Insights

3. Financial Modeling and Forecasting

- Time Value of Money and Financial Decision-Making
- Financial Modeling using Spreadsheets and Analytical Tools
- Predictive Analytics for Revenue and Expenditure Forecasting

4. Advanced Applications in Public Sector

- AI in Budgeting and Public Expenditure Management
- Fraud Detection and Audit Analytics through AI
- Digital Governance and Smart Financial Systems

5. Governance, Transparency, and Ethics

- Open Data and Accountability
- Role of Analytics and AI in Good Governance
- Ethical Considerations in AI Deployment
- Enhancing Efficiency in Public Services using AI (Cases in DBT, PFMS, Health Care etc.)