



# Data Science & Analytics



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## **1. Introduction:**

Amvion Labs has been serving, across industry verticals to deliver expert IT services & solutions to our customers. Amvion is a committed long-term, trusted IT Partner to many large organizations, including banks & large multi-national Corporations.

Amvion delivers technology solution expertise in the areas of :

- **Data Analytics** - Process Analysis & Reports Automation. Deep Analytics using prediction & prescription algorithms. Healthcare, Retail & Banking/Finance industry customized.
- **IT Security** – Security Testing; Security Audits, Malware Detection & Prevention, End Point Management, Cloud Security Management, Cloud APT Services, DDOS Prevention.
- **Managed Cloud Services** – T-Ops Cloud Managed Services to deliver CloudOps, DevOps, Governances, SecOps, Compliances, AIOps. Cloud Simplification & CIO Advisory Platform.
- **Enterprise IT Infrastructure Services** – LAN & WAN including performance audits; Mobility & Secure Remote Access; Networking; Surveillance; Email, Conferencing & collaboration; IP Telephony Solutions. Setting up of On-premise Server / Storage Infra

## **2. Amvion Vision:**

To be recognized as a pioneering IT system integrator through distinguished IT services and solutions, in areas of Data Analytics, IT infrastructure, Security, Cloud Services & IT Outsourcing Services.

## **3. Amvion Mission:**

To provide Amvion's clients', services of the highest standard on Data Analytics, Cyber Security, DevOps, Cloud Management, and IT Infrastructure, while maintaining the highest level of integrity and excellence in all, through a civilizational philosophy to differentiate ourselves as a conscientious organization upholding highest level of ethics & human compassion.

## **4. Objective of Data science & Analytics**

- Data drives the World.
- If there is a word bigger than 'Oil' right now, it would be 'Data'.
- Data provides the Key to Business Insights, Customer Acquisition, Product Development and Innovation etc.
- Data can Lead to valuable Insights that can determine leads to increase sales, fraud detection, pattern recognition and risk prediction in various domain.
- Data Analytics ensure that identification of meaning in Data so that the information gained may be utilized to make better decisions.

**Below are the Types of Analytics Amvion provide for the valuable clients:**

### **➤ Advanced analytics**

Drive higher-level outcomes with deeper-level analytics. Advanced analytics is a collection of data analytics techniques, such as machine learning and predictive modeling, used by businesses to improve their decision making.

### **➤ Marketing Analytics**

Create personalized, contextual interactions across channels. The application of scientific methods to guide marketing efforts is undergoing significant changes. Today's Marketing Analytics should blend in newly available non-traditional sources of data with enterprise data, and adapt to the rapidly evolving digital delivery channels.

### **➤ Customer Analytics**

Attract and retain customers with agile, digital strategies. A deeper understanding of the customer has never been as important as it is today. Social media, open information, new business models, and ever increasing options make it paramount to understand the pulse of customers and predict their behaviors.

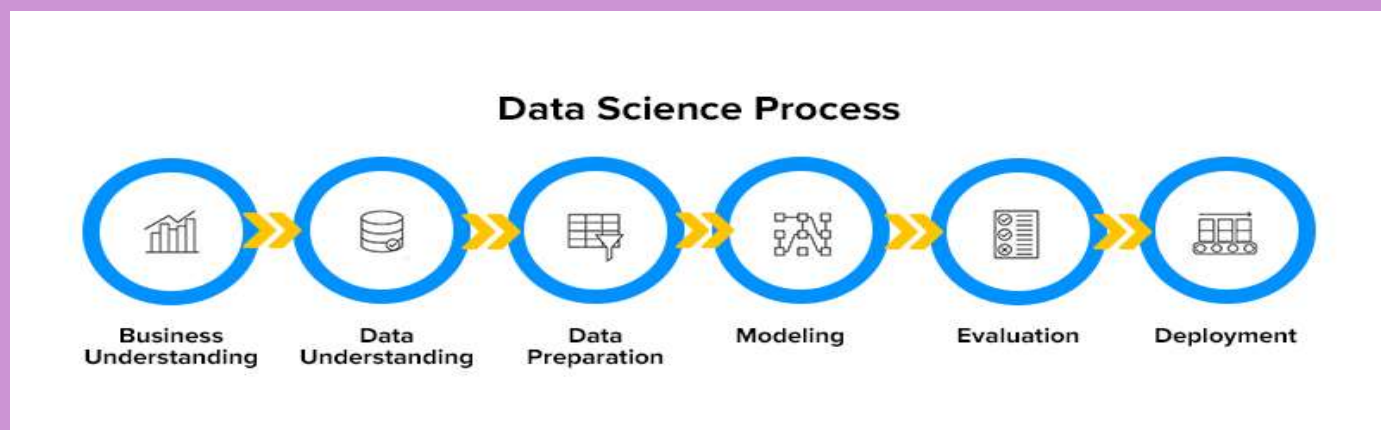
### **➤ Risk and Compliance Analytics**

Stay ahead of risk and regulatory requirements. Risk analytics has traditionally been the mainstay of financial services organizations – banks, insurers, brokerages, credit cards, etc. However, if risk is identified and quantified, organizations in all industries can adopt appropriate risk mitigation measures.

### **➤ Operations Analytics**

Optimize business operations with real-time analytics. Functions such as Sales and Marketing have traditionally benefited from using analytics. Analytics is now being used widely in other functions as well, ranging from HR to Finance, as CXOs realize the value of data-driven operations.

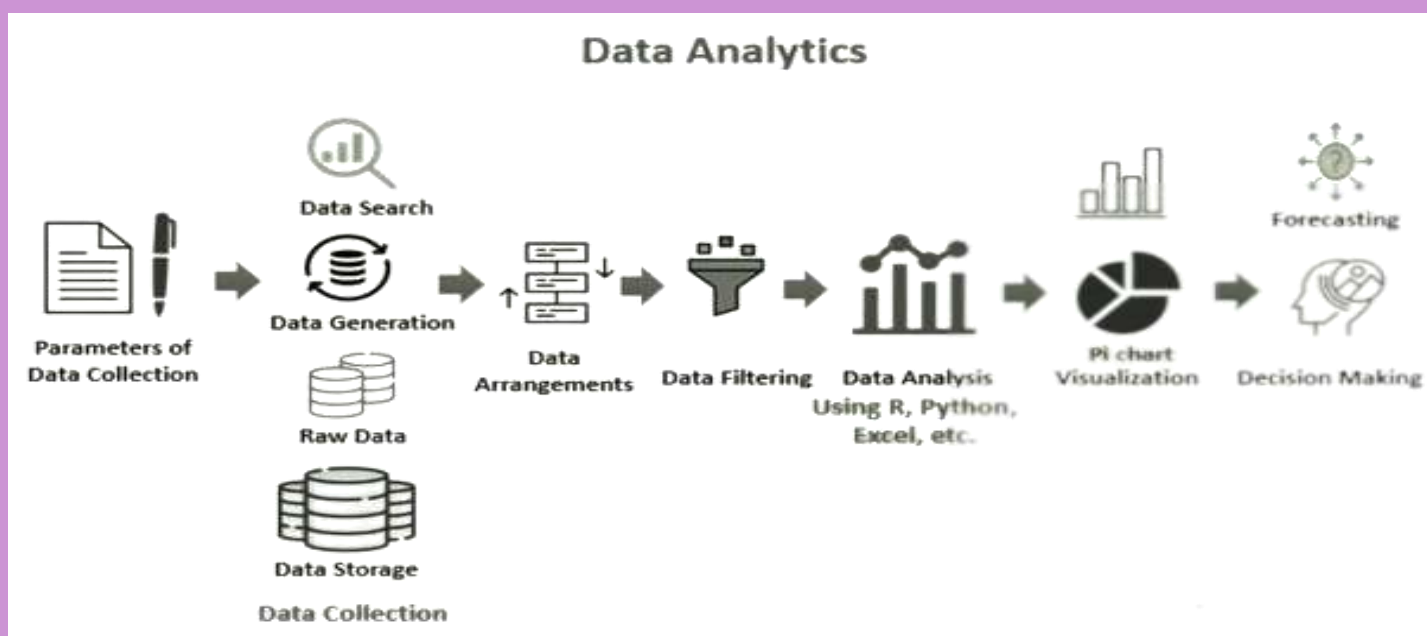
## 5. Approach of Amvion Lab's in Data Science & Analytics



Amvion Labs, a leading expert in the field of data science and analytics helps the organizations facing the challenge of making sense of vast amounts of information to drive their decision-making processes. At Amvion Labs, we specialize in providing tailored solutions that harness the power of data to unlock valuable insights and drive business success.

Using cutting-edge algorithms and advanced analytics techniques, our team of experienced data scientists works closely with organizations to analyze and interpret their data effectively. We offer a comprehensive suite of services, including data cleaning and preprocessing, predictive modeling, machine learning, and actionable visualization.

Experience the transformative impact of our data science and analytics expertise on your organization's growth trajectory. Contact Amvion Labs today to unlock the true potential of your data-driven future.



## **6. Proficiency of Amvion Lab's in Data Science & Analytics**

- ❖ Expertise on Hadoop Distribution like Hadoop, HBase, Hive, Pig, Scoop, Flume, OOOIE, MapReduce, YARN, HDFS, Zookeeper and Spark Technology.
- ❖ Expertise in Process of OLTP and OLAP.
- ❖ Expertise with AWS Cloud and data related services (AWS Glue, AWS Redshift, AWS Lambda, AWS RDS, AWS S3, AWS EC2).
- ❖ Designing and building real-time data pipelines, data cleansing, data transformation AWS Glue service.
- ❖ Customized Data transformation/processing using languages like Python and R.
- ❖ Expertise in data orchestration, integration, ingestion and processing of batch and real-time data applications to be audited, types of application, desired type of security testing, our predefined number of tests for each type of application, security assessment tools, and more.
- ❖ Data warehousing on big data platform like Redshift and synapse, which may include both batch data processing and real-time stream processing.
- ❖ Working with the complex structure of the data model and define a data warehouse data model based on data aggregation and requirements.
- ❖ Interpreting and designing the target data model.
- ❖ Data fetch from Heterogeneous data storage technologies to support various data access requirements, building and maintaining data warehouse.
- ❖ Problem-solving & advanced analytical skills.
- ❖ Expert in understanding client's data objectives and translating business need into the appropriate technical data model.
- ❖ Specialist in designing and generating multi-page dashboard visualizations that represent data stories to undertake meaningful actions.
- ❖ Expertise in Reporting tools PowerBI, Tableau, LookerStudio and Quicksight.
- ❖ Creation of automated pipeline and workflows that enable automated data flow.

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Experience the transformative impact of our data science and analytics with **Amvion Lab's Data Analytics experts.**

How can we help you ?

**Let's talk.**



[ram@amvionlabs.in](mailto:ram@amvionlabs.in)



[www.amvionlabs.com](http://www.amvionlabs.com)

