

# **ROAD MAP FOR DATA SCIENCE**

## **MS OFFICE**

**EXCEL [ BASIC TO ADVANCE + DASHBOARD + MACRO ]**

**POWER POINT [ BASIC TO ADVANCE ] ( OPTIONAL )**

## **PROGRAMMING LANGUAGES ( ANY 1 )**

**PYTHON ( BASIC TO MODERATE LEVEL )**

**R ( OPTIONAL )**

**JAVA ( OPTIONAL )**

## **WEB-DEVELOPMENT ( ANY 1 )**

**FLASK OR DJANGO OR STREAMLIT**

## **DATABASE**

### **DBMS**

**FOR STRUCTURE DATA ( ANY 1 )**

**SQL**

**SQLITE**

**FOR UNSTRUCTURED DATA ( ANY 1 )**

**MONGODB**

**CASANDRA**

## **WEB SCRAPING**

## **ETL TOOL**

**INFORMATICA (POWER-CENTRE)**

**IICS**

## **STATISTICS**

**DESCRIPTIVE STAT**

**INFERENCE STAT**

## **MATHEMATICS**

**PROBABILITY**

**LINEAR ALGEBRA**

**CALCULUS**

**DIFFERENTIAL EQUATIONS**

## **DATA SCIENCE ( CORE TOPICS )**

**MACHINE LEARNING**

**DEEP LEARNING**

**NATURAL LANGUAGE PROCESSING**

**COMPUTER VISION**

# **OPERATIONS FOR ML & AI**

**MLOPS**

**AIOPS**

**BIG DATA** (ALL TOPICS)

## **BUSINESS INTELLIGENCE TOOLS**

**GOOGLE DATA STUDIO**

**POWER BI + [ POWER APPS + POWER AUTOMATE + DATA VERSE  
+ POWER VIRTUAL AGENTS+POWER PAGE ]**

**TABLEAU**

**MSBI ( OPTIONAL )**

**ALTERYX ( OPTIONAL )**

**QLICK [ VIEW ] & QCLICK [ SENSE ] ( OPTIONAL )**

## **AZURE BI**

**AZURE DATA FACTORY**

**AZURE DATA BRICKS**

**AZURE SYNAPSE ANALYTICS**

## **PREREQUISITE FOR CLOUD**

**OS ( LINUX ( BASIC TO MODERATE ) )**

**CLOUD ( ANY ONE )**

**AWS OR AZURE OR GCP**

## **OTHER TOPICS**

**MLFLOW ( BASIC TO MODERATE )**

**AIRFLOW ( BASIC TO MODERATE )**

**GIT & GITHUB ( BASIC TO MODERATE )**

**DOCKER ( BASIC TO MODERATE )**

**NETWORKING ( BASIC TO MODERATE )**

**DATA STRUCTURE ALGO. ( BASIC TO MODERATE )**

**JIRA ( BASIC TO MODERATE )**

**MINI PROJECT ON EACH TOPIC**

**ONE CAPSTONE PROJECT**

**INTERNSHIP ON ANY OF ONE FIELD**