

BCA in Data Science

Objective

Bachelor of Computer Application is concerned with Data Science application in Business Organization with Programming knowledge in statistical analysis, data base management and operational functions on Big Data and its visual representation with the help of Statistical Techniques. The program will produce graduates who will be competent professionals in IT industry, Analytics industry, academics, government, or entrepreneurs.



What is Data Science?

Data Science is perfect blend of Statistics & Mathematics, programming, analytics and business skills that allows extracting meaningful insights from raw and unstructured data.

Why Data Science?

- ✚ Adopt best practices to improve the productivity of the Business outcome.
- ✚ Identify new opportunity in the market for cross & up development
- ✚ Test the decision of High-level management quantitatively.
- ✚ Identify and redefine the target people for the business to maximize the income
- ✚ Select right candidate for the right business.
- ✚ Data Science is the indispensable division for every business industry for their decision-making process
 - Education Industry
 - Analyse the performance of Faculty and Students
 - Healthcare Industry
 - Disease Prediction
 - Sales Industry
 - Supply and demand Analysis
 - Finance Industry
 - Forecasting
 - Transport Industry
 - Optimize the distance and reduce the travel time

Why should you join BCA in Data Science?

The need for studying Data Science in a formal degree program has seen an exponential growth in the last decade mostly fueled by explosion in the generation of data and their importance in bringing up useful insights.

- ✚ One of the fastest growing sectors in the IT industry
- ✚ Every year, IT sector will add 2.5 lakh new jobs for Data Science (Source: NASSCOM)

Facts

- ✚ According to Statistics MRC, the Global Data Science Platform Market is accounted for \$19.75 billion in 2016 and is expected to reach \$128.21 billion by 2022 growing at a CAGR of 36.5% during the forecast period.
- ✚ It is estimated that the digital universe is made up of around 3.2 Zettabytes of data and it is expected to increase to 40 Zettabytes in the next 6 years.
- ✚ Individuals create around 70% of the data and organizations only analyse 12% of this data. It is clear that there is a huge dearth of data science professional to analyse and bring the value out of it.
- ✚ In a day, 2.5 quintillion bytes of data is created, and this is an indication that 90% of the data has been created in the last two years.

- Business Higher Education Forum of USA predicted that there would be 2.9 million jobs by end of 2018 for data science skilled professionals.

To meet this demand, iNurture has designed this unique specialization program and the learning experience as follows:

- Program offers flexibility to students in making their career choices in either of the niche areas or in a combination of them
- Unique learning path that teaches technical skills, enhances non-technical skills that are topped-up with orientation by industry experts thus significantly improving Industry Readiness Quotient
- Offers opportunities for Value Added Programs that compliments learning through academic curriculum
- Acquire knowledge of fundamental concepts, Statistics and Mathematics, Statistical Programming Language, Machine Learning, Model Validation, Data Preparation, tools and techniques required in Data Science through syllabus designed in alignment with latest trends
- Accelerate understanding through application-oriented and student-centric learning
- Augment curriculum with pragmatic approach through projects, knowledge exchange forums and sessions by professionals

What job opportunity awaits you?

- Business Analyst
- Associate Business Analyst
- Junior Business Analyst
- Data Analyst
- Associate Data Analyst
- ETL Analyst
- Junior Big Data Engineer

Learning Path

- Foundation Level:** Statistics and Probability, Exploratory Data Analysis, R and Python Programming Language, Linear Algebra.
- Intermediate Level:** Machine Learning, Statistical Inference, Time Series Analysis, Multivariate Statistical Analysis, Design and Analysis of Experiments, NoSQL Data bases.
- Professional Level:** Big Data Analytics, Neural Networks, Advanced Machine Learning Techniques, Dimension Reduction and Model Validation Techniques, Probabilistic Graphical Models, Recommender System.

Career opportunities with the companies on Mobile Application

