UTTARANCHAL UNIVERSITY
NAAC GRADE A+

Executive Development Program in

DATA ANALYTICS

Duration: 18 Months

Establishment of the University:

Uttaranchal University was established in 2013, vide Uttaranchal University Act, 2012 (Uttarakhand Act No.11 of 2013) as a self-financed University, it is located at Arcadia Grant, Premnagar, Dehradun, the capital city of an Indian State of Uttarakhand. The Uttaranchal University has been recognised by UGC under Section 2(f) and 12(B) of the UGC Act, 1956 and other Statutory and relevant Regulatory Bodies of the State and the Country. The University is promoted by Sushila Devi Centre for Professional Studies & Research, a Society registered under Societies Registration Act (1860). Its lush green campus is situated on NH-72 near the prestigious Indian Military Academy (IMA) and Forest Research Institute (FRI). Dehradun is located in the Doon valley on the foothills of the Himalayas in Northern India.

Approvals and Recognitions:

The University is having the required approvals of Bar Council of India, Pharmacy Council of India and Nursing Council of India to run the programmes of Law, Pharmacy and Nursing respectively. The other programmes run by the University are having required approvals of its statutory bodies i.e., Academic Council and Board of Management of Uttaranchal University. The Degrees, Diplomas, EDP or MDPs awarded by the University are in conformity with the UGC/BCI/PCI/INC regulations. The University is maintaining its academic standards and quality as prescribed by the various statutory bodies.

National level Accreditation:

The University has been accredited with the prestigious **"A+ Grade"** by the **National Assessment and Accreditation Council** (**NAAC**), Bengaluru. This firmly positions the University among the top 5% HEIs of the nation. The University is undeterred in its mission to provide the best experience to all its students & professionals whether regional, national or international, through quality teaching, research, creativity, and entrepreneurship with an aim to have a transformative impact on the society.

INTRODUCTION

Data analytics is one of the most in-demand skills in the business world today. Companies are constantly collecting vast amounts of data, but without the right tools and expertise, it can be difficult to extract meaningful insights and drive growth. This is where the Executive Development Program on Data Analytics comes in.

This program, offered by Uttaranchal University, is designed specifically for working executives who want to build their knowledge and skills in data analytics. Participants will learn the latest methods and tools for analyzing data and making informed decisions, and will gain practical experience working with real-world data sets.

PROGRAMME HIGHLIGHTS

- **Gain Hands-on Experience:** Exposure to Data Analytics along with Tools & Techniques with Hands-on experience.

- **Exposure of Emerging Trends:** Special focus on emerging trends such as Digital Economy, Industry 4.0, and Entrepreneurship.

- **Acquire 360-Degree Approach of Management:** Rounded coverage of both traditional and contemporary aspects of business management.

WHO SHOULD ATTEND?

This program is ideal for executives who are looking to develop their skills in data analytics and improve their ability to drive business results.
It is designed for individuals who work in roles such as:

- Data Analysts
- Business Analysts
- Data Scientists
- Marketing Analysts
- Operations Analysts
- IT Managers
- Finance Professionals
- Product Managers
- Anyone looking to build their skills in data analytics and drive business results

ELIGIBILITY

- **For Indian Participants:** Graduates (10+2+3) or Diploma Holders (only 10+2+3) from a recognized university (UGC/AICTE/DEC/AIU/State Government) in any discipline.

- **For International Participants:** Graduation or equivalent degree from any recognized University or Institution in their respective country.

- Minimum of at least 2 years of work experience.

PROGRAM OUTCOMES

Upon completion of this program, participants will be able to:

- Use data analytics tools and techniques to make informed decisions
- Collect, process, and analyse large amounts of data
- Create meaningful data visualizations
- Use predictive analytics to forecast future trends
- Understand and apply machine learning algorithms to real-world data sets
- Communicate insights and recommendations to stakeholders in a clear and effective manner

FACULTY

The program will be taught by experienced faculty from Uttaranchal University. Our faculty have extensive practical experience in data analytics and are well-respected experts in the field.

FEE STRUCTURE

National	International
Registration Fee : Rs. 2000 Tuition Fee : Rs. 169080 Other Charges : Rs. 35000	The similar Fee structure is applicable for the international executives in USD ($).

Note :

- The Information Provided in the brochure is pertaining to the current status & is subject to change as per the discretion of the Competent Authority.

CONTENT

MODULE 1: FUNDAMENTAL OF DATA ANALYTICS

- Basic understanding of Data Analytics
- Need of Data Analytics
- Types of Data Analytics: Descriptive, Diagnostics, Prescriptive, Predictive
- Real Time Applications of Data Analytics

MODULE 2: DATA ANALYTICS USING MS-EXCEL

- Introduction to Excel
- Basic Functions, Formulae's and Charts for Data Analysis
- VLOOK UP, HLOOKUP for Data Analysis
- Pivot Table for Data Analysis

MODULE 3: INTRODUCTION TO PYTHON

- Basics of Python Programming
- Working with List, Tuple and Dictionaries
- Data Structure using Python
- OOPS Concepts in Python

MODULE 4: PYTHON FOR DATA ANALYTICS

Introduction to Numpy
- Installing Numpy
- Creating and Accessing Single and Higher Dimension Array
- Operations on Array

Introduction to Pandas
- Installing Pandas
- Working with Pandas Series, Data frame
- Pandas Methods., Pandas Operations
- Data frame to CSV, Reading Files

MODULE 5: DATA VISUALISATION

- Basics of Data Visualization
- Installing Matplotlib
- Frequency Distribution Plot
- Swarm Plot
- Heat Map

MODULE 6: EXPLORATORY DATA ANALYSIS

- Data Extraction
- Data Cleaning
- Data Transformation
- Demographic Analysis

MODULE 7: INDUSTRY APPLICATIONS AND VALEDICTORY

- Learn through interactive sessions in hybrid mode.
- Learn from anywhere and on your own device.
- No expensive and time consuming software/hardware installations required.
- Network with peers and interact with faculty real time.
- Convenient weekend schedules to suit working professionals.
- Request "On Demand" access to the recorded session.
- Access all study material and learning aids from within the LMS.

Our USP's

CAREER GROWTH

CAREER ALIGNMENT

SELF-DISCOVERY

PLANNING & IT'S EXECUTION

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