



PG Diploma - Data Analytics (UpGrad + IIIT-B)

11-month Online Program





UpGrad is an online education platform to help individuals develop their professional potential in the most engaging learning environment. Online education is a fundamental disruption that will have a far-reaching impact. At UpGrad, we are working towards transforming this online education wave into a tsunami! We are taking a full-stack approach of leveraging content, technology, marketing and services to offer quality education at scale in partnership with corporates & academics to offer a rigorous & industry relevant program.

Based on our market research and conversation with the industry, we have identified Data Analytics as one of the sectors with critical supply demand imbalance. Our vision is to design and deliver a quality online Postgraduate Program in Data Analytics to drive the growth of the sector and make India a global hub for data analytics.

If you are reading this, you may wish to accelerate your career in Data Analytics. With UpGrad, we promise to equip you with the perfect mix of business acumen and technical capabilities to help you achieve exactly the same.

Ronnie Screwvala

Co-Founder
UpGrad



IIIT-B is well respected in the global academic circles as well as in the global analytics and IT industry. We have outstanding world class faculty, with years of experience, in charge of running the analytics essentials executive education course.

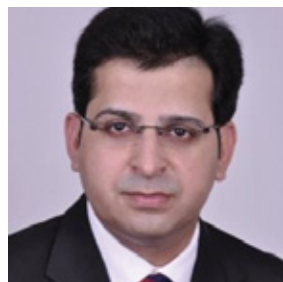
We are excited to partner with UpGrad to offer a one-of-its-kind, academically rigorous and industrially relevant PG Diploma program in Data Analytics. IIITB's faculty will be discussing the conceptual depths of topics such as DS, IS, ML, BDA. And this will be complimented by industry relevant case studies from major industry verticals by industry leaders from UpGrad's industry network. Further, our strong placement network, industry mentorship and the credibility of a PG Diploma program will provide you just the right push to accelerate your career in Data Analytics!

We invite you to take this opportunity and join us and make use of the excellent pedagogy and industry collaborations. You will truly be getting the best of both worlds, which will help you achieve success in the field of Data Analytics.

Prof. S. Sadagopan

Director
IIIT Bangalore

Learnings and Case-Studies from India's Most Influential Analytics Leaders



Sameer Dhanrajani

Business Leader
Cognizant Technology Solutions



Ujjayani Mitra

Associate Director Business Finance
Flipkart



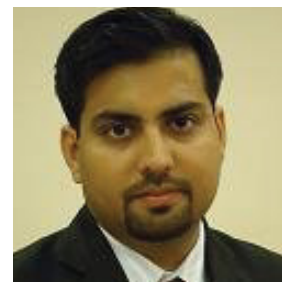
Tejas Sanghavi

Vice President
Fractal Analytics



Kalpana Subbaramappa

Ex - Assistant Vice President, Decision Sciences
GENPACT



Vinit Vishal

Head - BI & Analytics
Arvind Lifestyle Brands Limited



Anshuman Gupta, PhD

Head - Data Science Program
Cognizant Technology Solutions



Madhukar Kumar

Advanced Analytics Expert
Experfy & Ex-WNS



Sai Alluri

Pro Analytics Lead
Uber



Hindol Basu

Partner
TotalQ



S. Anand

Chief Data Scientist
Gramener

Concepts from Top Academicians



Prof. S. Sadagopan

Director
IIIT Bangalore



Dr. Chandrashekar Ramanatha

Associate Dean
IIIT Bangalore



Tricha Anjali

Associate Professor
IIIT Bangalore



G Srinivasaraghavan

Professor
IIIT Bangalore



Dinesh Babu Jayagopi

Assistant Professor
IIIT Bangalore

Why Data Analytics with UpGrad & IIIT-B?



PG Diploma from IIIT-B

Earn a reputed Post Graduate Diploma without leaving your job



For the Industry, by the Industry

Receive mentoring from industry leaders and be ahead of the curve by learning what the industry needs



Career Support

Get access to career coaching services and a chance to be part of IIIT-B and UpGrad Recruitment Process



Domain Specialization*

Choose between BFSI, E-commerce/Retail, Healthcare/Life Sciences or Telecom/Media & build a resume showing expertise in one of the largest sectors in the world



On-the-go Learning

400 hours of lectures squeezed into 30 mins learning sessions anywhere – anytime



Student Support

Round the clock academic/ non-academic support. Unparalleled peer-to-peer learning

Program Curriculum

Introduction to Data Management

Introduction to Data Analytics

Understand what is data analytics & its applications across industries

Introduction to Data Sets and Data Models

Learn how to solve problems & identify relevant data sets for solving them

Programming Language for Data Analysis

Get equipped with analytical tools like (R and Python) for Data Analysis

Data Warehousing and OLAP

Learn to extract and pre-process data before analysis

Data Visualization

Make your data alive with visuals using R, Excel and tools like Tableau



Statistics and EDA

Exploratory Data Analysis

Derive initial insights from the data using R and other visualization tools

Descriptive Statistics

Summarize and describe data sets using Central tendency & variability

Inferential Statistics

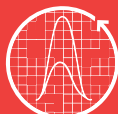
Learn probability, Central Limit Theorem and much more to draw inferences

Design of Experiment

Use Design of Experiment methodology for data collection

Hypothesis Testing

Understand how to formulate & test hypotheses



Introduction to Predictive Analysis I

Introduction to Machine Learning

Learn all about Tasks, Features, Models and design of ML study

Distance based and Linear Models

Master KNN, K Means, SVMs & Perceptron

Probabilistic Models

Understand algorithms like Logistic regressions & Naïve Bayes

Features & ML experiments

Learn Dimensionality reduction, LDA and common pitfalls in analysis



Introduction to Predictive Analysis II

Tree and Bayesian network model

Learn Decision Trees, Random Forests and Bayesian Models

Kernel Methods and Model Selection

Understand Kernels, Overfitting/Underfitting, bagging/boosting and ensemble methods

Advanced Regression and time series modelling

Learn Ridge regression, Logistic Regression and Markov Models

Neural networks

Master Feed-forward, Recurrent and Gaussian Neural Networks



Big Data Analytics

Introduction to Big Data and Hadoop

Understand what is Big Data Hadoop and use Hadoop as a processing platform

Managing Big Data

Learn to extract and manage data using Sqoop, Hive and HBase

Introduction to Spark

Understand the use of Spark and basics of Scala

Big Data Analysis

Learn Big Data analysis using SparkR, SparkSQL and basics of MLlib



Domain Electives*

BFSI

Learn Customer analytics and Risk Analytics within BFSI

E-Commerce/Retail/CPG

Learn customer marketing analytics and recommendations engines

Telecom/Media

Learn how analytics is revolutionizing both Telecom and Media domains

Health Care/Life Science

Understand analytics usage in Healthcare improvement and drug discovery



Capstone Project

Reinforce your industry specialization by doing a 3 month industry mentored capstone project



Program Details

Start Date

Feb-March 2017*

Duration of Program

11 Months

Program Flow

8 Months - Interactive Learning

3 Months - Industry Mentored Capstone Project

Weekly Commitment

10-15 hrs per week (Depending on prior aptitude)

(5-7 hrs of video experience time, 1-2 hrs of live session, 4-6 hrs assignments & projects)

Tuition Fees : 2,00,000 (Incl. of all taxes)

Flexible Payment Options

Merit Based Scholarships

Eligibility

Bachelor's/ Master's degrees with mathematical and some programming background

Selection Process

Selection test to assess quantitative and programming aptitude



“UpGrad’s course offerings have given me the vision and the clarity of thought that I needed to establish new career goals”

- Avani Chitroda, Assistant Vice President at Deutsche Bank

“I feel that the content provided by UpGrad is great and the platform is very intuitive with very active peer-to-peer engagement which keeps you on your toes”

- Hersh Pitroda, Co-Founder at Burosys Furniture



“Apart from the quality content, UpGrad also connected me with people of similar mindsets and ambitions which keeps me constantly motivated and driven”

- Dhivya Kalanithy, Conference Producer, The Ideas Exchange

“UpGrad has the best educational platform for professionals like me who want to study and advance their skills without leaving their jobs”

- Sharan Karnani, Director, Kiran Knit & Garments Pvt. Ltd.



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