DATA ANALYTICS

Program Details

Data has become central to business intelligence today. How does one collect reliable data for research or quick decisions? How does data analytics help you in managing your resources better? Can a student use business intelligence tools to understand complex data?

For all such queries, this simulated workspace environment gives you an edge to make sense of data and get things done.

No licensing, legislative or certification requirements apply to this qualification at the time of publication.

Location	At the iWIL Pro training centre near you
Mode of Delivery	Hybrid
Mode of Assessment	Online (from the training centre)
Duration	40 hours (weekday/weekend batches)
Prerequisite / Entry requirements	• Graduate (or pursuing graduation) • Desirable: 1-3 years of IT work experience/ Python programming
Possible occupational outcomes	Web Application Security Analyst, Cybersecurity Analyst Assessment, Quality Assurance Security Analyst, Information Security Analyst, IS Process Compliance Analyst, Web Security Engineer and many more
Tuition fee	INR 1,00,000 + GST
Fees Includes	Training + Exam + Certificate (iWIL DAC)
Fees Excludes	Fees for external certificates (if applicable)

Units to Study

Exploring Analytics
Descriptive analytics, Diagnostic analytics, Predictive analytics, Prescriptive analytics

Data visualization skills
Practical exercises with top data visualization libraries: seaborn, matplotlib, and d3.js

Experience with real business problems and datasets
Individual lessons on the most popular machine learning algorithms, covering key concepts such as regression and clustering.

Data Wrangling
APIs: Collect data from the internet using Application Programming Interfaces (APIs)

Statistical Interference
Use hypothesis testing to determine if a phenomenon is statistically significant. Learn how correlation and regression can be used to identify useful features

Data Warehousing
Data management and querying, Data extraction, transformation and loading (ETL) techniques, Fundamentals of data warehouse, Overview of technology stack to support analytics

Application of Deep Learning and Reinforcement Learning in Decision making
Fundamentals of Deep Learning, Deep, Convolution and Recurrent Neural Network – concept, Use cases of Deep Learning in different industry verticals, Fundaments of Reinforcement Learning, Use cases of Reinforcement Learning in industry use cases

R Basics and R for Data Analysis
What's R, Using R, Programming in R, R statistics – Mean, Median, Mode etc. Data Manipulation in R – Counting, Merging, Append, Sort, Subset, Filter, New Variable Creation

Tableau for complex results & decision makers
We'll help you become an expert story teller using the leading visualisation software in business intelligence and data science.