Explore
New Horizons in
Analytics

About **Knowledge Hive**

At Knowledge Hive, we stand as a beacon of transformative learning, dedicated to shaping the futures of professionals through our innovative programs. Our commitment is to empower individuals with the skills they need to thrive in their chosen fields.

Our **Approach**

Rooted in a case-based pedagogy, our program places a strong emphasis on real-life applications. We meticulously curate industry-vetted content, ensuring that our learners not only upskill but also translate their newfound knowledge into tangible career success.

Our **Vision**

We are more than an education provider; we are architects of a growth ecosystem. Our mission is to assist professionals in unlocking their latent talents and seizing opportunities at every stage of their careers.

What **Sets Us Apart**

For our current students, we offer more than just a learning experience. We provide a supportive community, personalized guidance, and access to a network of mentors who are graduates of esteemed institutions like IIT Madras and IIM Ahmedabad.

Invest **in Your Future**

Join Knowledge Hive, where learning transcends traditional boundaries, and success becomes a tangible reality. As you embark on your educational journey with us, expect to be taught, guided, and mentored by top-notch professionals from leading organizations.

**Unlock Your Potential.
Seize Opportunities**

Choose

Knowledge Hive.

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Industry Insights

There is a consistent increase in the number of job postings for roles such as **Data Analysts, Business Intelligence Analysts, and Data Scientists.**

25%
Annual growth rate for **Analytics Jobs**

Diverse
Industry Applications

Professionals skilled in analytics are sought after in diverse sectors, including finance, healthcare, e-commerce, and telecommunications.

Data analytics professionals continue to enjoy a salary premium, with average salaries significantly higher than those in many other fields.

Professionals with **expertise in tools like SQL and Power BI** command **premium salaries.**

Unlock the power of
Data Analytics

Module 1

Statistics
for Data Analysis

Module 2

SQL Mastery
for Database Management

Module 3

Power BI
for Dynamic Data Visualization

Demystify Data with
Statistical Insights

Five Weeks Classroom – 20 hrs, Hands on assignments with Case studies – 20 hrs, Capstone project – 20 hrs

Week 1 — Foundations of Statistical Analysis

Class 1
Introduction to Statistics
Understanding the Crucial Role of Data in Analytics
Unveiling Descriptive Statistics: Tabular and Graphical Presentations
Mastering Numerical Measures in Descriptive Statistics

Class 2
Probability Essentials
Introduction to Probability and its Significance
Unraveling Discrete Probability Distributions
Exploring Continuous Probability Distributions

Week 2 — Analytical Inference Techniques

Class 3
Interval Estimation & Hypothesis Tests
Analyzing Patterns: Sampling Distributions
Building Confidence: Techniques for Interval Estimation
Decoding Analytical Hypotheses: Introduction to Hypothesis Tests

Class 4
Comparative Inference
Drawing Insights: Inference About Means in Two Populations
Proportional Analysis: Inference About Proportions

Week 3 — Advanced Statistical Inference and Regression Analysis

Class 5
Inferences and Tests of Goodness of Fit
Population Variances: Statistical Inference Techniques
Inference Techniques in Analytical Decision-Making
Assessing Fit: Statistical Tests for Goodness of Fit
Statistical Tests for Analytical Inference

Class 6
Experimental Design & Linear Insights
Designing Experiments: Principles and Strategies
Analyzing Variance
Linear Regression Models

Week 4 — Advanced Regression Techniques and Time Series Analysis

Class 7
Multiple Regression Analysis and Model Building
Multiple Regression Modeling
Advanced Applications of Multiple Regression
Building Robust Models: Strategies in Regression
Fine-tuning Analytical Models for Effective Decision-Making

Class 8
Numeric Precision & Forecasting Trends
Applications of Index Numbers in Analytical Settings
Principles of Time Series Analysis
Analytical Forecasting: Techniques for Predicting

Week 5 — Advanced Analytical Methods and Decision Science

Class 9
Nonparametric Methods
Unconventional Approaches
Applications of Nonparametric Methods

Class 10
Decision Analysis in Analytics
Quality Assurance in Analytics
Decoding Decisions: Analytical Approaches to Decision Analysis

Week 7-10 — Capstone Project

Objective: Apply learned Statistics skills to a comprehensive data analytics project.

Phases: Sampling, Analysis, Regression, Testing and Inference

Additional Components

Assignments/Homework (20 Hours): Weekly assignments + Case Studies to reinforce classroom learning, focusing on Statistics for data analytics.

Cost: ₹19,999

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Harness the Power of Structured Query Language

Six Weeks
Classroom – 30 hrs, Hands on assignments with Case studies – 30 hrs, Capstone project – 30 hrs

Week 1 — SQL Basics and Single Table Queries

Class 1
Introduction to SQL and Databases
SQL Syntax and Basic Queries
Filtering and Sorting Data
Aggregate Functions (COUNT, SUM, AVG, MIN, MAX)
Hands-On: Simple Data Retrieval Exercises

Class 2
Advanced Data Filtering and Analysis
Complex WHERE Clauses
Logical Operators and Pattern Matching
Hands-On: Advanced Single Table Queries

Week 2 — Multi-Table Queries and Joins

Class 3
Understanding and Implementing Joins
INNER JOIN, LEFT/RIGHT JOIN, FULL JOIN
Joining Multiple Tables
Hands-On: Multi-table Data Retrieval

Class 4
Advanced Joins and Data Aggregation
Complex JOIN Operations
Advanced GROUP BY Techniques
Hands-On: Complex Join Scenarios

Week 3 — Subqueries, Set Operations & SQL for Analytics

Class 5
Mastering Subqueries and Set Operations
Writing Subqueries
UNION, INTERSECT, EXCEPT
Hands-On: Nested Queries and Set Operations

Class 6
Exploring statistical functions like STDDEV, VARIANCE, and their applications in data analysis
Techniques for trend analysis, pattern recognition, and anomaly detection
Hands-On: Comprehensive Data Analysis using Advanced SQL.

Week 4 — SQL for Data Analysis and Reporting

Class 7
Writing Queries for Reporting Purposes
Data Transformation Techniques
Hands-On: Preparing Reports Using SQL

Class 8
Window Functions (OVER, PARTITION BY)
Common Table Expressions (CTEs)
Hands-On: Advanced Analysis Techniquess

Week 5 — Advanced SQL Features and Performance Tuning

Class 9
Advanced JOIN Techniques
Performance Tuning and Optimization
Hands-On: Optimizing SQL Queries

Class 10
Extracting Data for Visualization
Connecting SQL to Tools like Power BI
Hands-On: Visualizing SQL Data

Week 6 — Real-World Applications and Capstone Project Introduction

Class 11
Analyzing Real-World Data Sets
SQL Best Practices in Data Analysis
Hands-On: Real-World Data Challenges

Class 12
Recap of Key Concepts
Final Assessment
Introduction to Capstone Projec
Course Feedback and Wrap-Up

Week 7–11 — Capstone Project

Objective: Apply learned SQL skills to a comprehensive data analysis project.

Phases: Data Collection, Querying, Analysis, Presentation.

Additional Components

Assignments/Homework (30 Hours): Weekly assignments + Case Studies to reinforce classroom learning, focusing on SQL for data analysis.

Cost: ₹19,999

Transform Raw Data into Compelling Insights using Power BI

Six Weeks

Classroom – 30 hrs, Hands on assignments with Case studies – 30 hrs, Capstone project – 30 hrs

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Week 1 — Introduction to Power BI

Class 1

Getting Started with Power BI
- Overview, Installation, and Setup
- Interface Exploration
- Basic Operations: Importing Data

Class 2

Basic Concepts and Data Exploration
- Understanding Data Types and Categories
- Introduction to Basic DAX (Data Analysis Expressions)
- Hands-On: Importing and Exploring Sample Data

Week 2 — Data Modelling and DAX Fundamentals

Class 3

Data modelling Essentials
- Understanding Relationships, Cardinality, and Cross-filter Direction
- Introduction to Creating Calculations using DAX
- Hands-On: Building a Basic Data Model

Class 4

Introduction to Power Query
- Basic Data Transformations in Power Query
- Hands-On: Simple Data Preparation with Power Query

Week 3 — Advanced Data modelling, DAX, and Power Query

Class 5

Advanced Data modelling Techniques
- Data Model Optimization
- Deep Dive into Basic and Intermediate DAX Functions
- Hands-On: Enhancing the Data Model with Advanced DAX

Class 6

Power Query Techniques
- Advanced Data Transformations in Power Query
- Hands-On: Enhancing Data Preparation with Power QueryAdvanced SQL.

Week 4 — Mastering Data Visualization

Class 7

Creating Basic Visualizations
- Designing Bar Charts, Line Charts, Pie Charts
- Best Practices in Data Visualization
- Hands-On: Building a Basic Report with Visuals

Class 8

Advanced Visualization Techniques
- Working with Slicers, Timelines, and Custom Visuals
- Interactive Reports: Drill Through, Drill Down, Tooltips, and Bookmarks
- Hands-On: Designing an Interactive Report

Week 5 — Power BI Service, Collaboration, and Storytelling

Class 9

Power BI Service and Report Sharing
- Publishing and Sharing Reports
- Setting Up Report Refresh and Scheduling
- Hands-On: Publishing and Sharing a Report

Class 10

Storytelling with Data in Power BI
- Crafting Narratives and Insights from Data
- Visual Storytelling Techniques
- Hands-On: Creating a Story-Driven Data Report

Week 6 — Review, Best Practices, and Final Assessment

Class 11

Industry-Specific Scenarios and Best Practices
- Exploring Real-World Case Studies
- Best Practices in Report Optimization
- Hands-On: Applying Skills to a Business Scenario

Class 12

Course Review and Final Assessment
- Recap of Key Concepts
- Addressing Remaining Questions
- Final Assessment
- Course Feedback and Wrap-Up

Week 7–11 — Capstone Project

Objective: Apply learned skills to a comprehensive data analysis project, incorporating storytelling elements.

Phases: Data Collection, Analysis, Visualization, Storytelling, Presentation.

Additional Components

Assignments/Homework (30 Hours): Weekly assignments + Case studies to reinforce classroom learning, with a focus on Power BI basics, Power Query transformations, data modeling, and storytelling in data analysis.

Cost: ₹19,999

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Sign up for
Data Analytics
Bundle

Module 1

Statistics
for Data Analysis

Save 25%

~~₹59,997~~

₹44,999

Module 2

SQL Mastery
for Database Management

Module 3

Power BI
for Dynamic Data Visualization