Mentor Hints

Your Gateway to Tech Mastery

Our mission is to empower students with the skills, knowledge, and confidence needed to excel in the competitive tech industry, ensuring they are fully prepared and equipped for successful, thriving careers.

Join With Us

Course Details

Course: Data Analyst

Course Description: The Data Analyst course teaches students to analyze and interpret data for business insights. Through practical projects, students gain skills in data manipulation, statistical analysis, and tools like Excel, SQL, and Python.

This Course is Particularly designed for **1st Year, 2nd Year & 3rd Year Students.**

Course Duration: 12 months

Course Fee: ₹5,499 Only

Enroll Now

For More Details Contact: Info@mentorhints.com +91-7418016096

Course Roadmap

Months 1-3: Foundational Training & Projects

- Learn Core Data Analysis Skills
- Complete Projects (Data Visualization, Business Insights)
- Receive Course Completion Certificate

Month 4: Real-time Problem Solving

- Address Real-world Data Challenges
- Hands-on Tasks and Data Problem Solving

Months 5: Test Month

- Complete exams and get endorsements from top company employers (Google, Microsoft).
- Collect project ideas and conduct market analysis to assess demand and supply.
- Finalize the project scope and allocate teams for execution.
- Move to real-world projects with team allocation for hands-on experience.

Month 6-8: Real-time Project Building

- Build Comprehensive, Real-world Data Analysis Projects (Sales Analysis, Market Trends etc.,)
- Create impactful projects and showcase them effectively in your portfolio

Month 9: Interview Preparation

- Mock Interviews, Resume & Portfolio Reviews
- Career Coaching and Industry Insights

Month 10: Guaranteed Internship (Paid/Unpaid)

- Gain Real-world Experience with a Tech Internship

2 Months: Flex Time

- Freeze any 2 months for prepare your exams
- Note: You should update 2months priority

Topics Covered

- **Week 1:** Introduction to Data Analytics: Introduction to Data Analytics - What is Data Analytics? - Importance of Data Analytics in Business - Data Analytics Process – Key concepts of Data - Collection, Cleaning, Analysis, Visualization, and Interpretation - Overview of Tools and Technologies - Excel, SQL, Python, R, Tableau, Power BI.

Exercise: Quiz: Quiz Maker | Make Free Online Quizzes in Minutes

- **Week 2:** Data Analytics with Excel: Basics of Excel - Dataset and Business assumptions - Lookups - Missing values and Error handling – Pivot Tables – Conditional Formatting – What if analysis - Charts.

Exercise: Practice exercise using COUNTIF, TRIM, UNIQUE, XLOOKUP, VALUE Quiz: Play & Create Quiz - Quiz.com

- **Week 3:** Advanced SQL: Advanced SQL Queries - Joins, Subqueries, Window Functions - SQL for Data Analytics - Aggregations, Grouping, Data Transformation - Hands-on SQL Practice - Complex Queries and Real-world Scenarios.

Exercise: Practice with JOIN Queries, ORDER BY, GROUP BY and Other SQL Queries. Quiz: Search from millions of quizzes - Quizizz

- **Week 4:** Introduction to Programming for Data Analytics: Introduction to Python/R - Basics of Python/R Programming - Data Analysis Libraries - Pandas, NumPy for Python; dplyr, tidyr for R - Hands-on Programming Practice - Data Manipulation with Python/R

Exercise: Practice with list, tuple, set, dictionary, numpy and pandas and in R Quiz: Mentimeter

- **Week 5:** Data Collection and Storage: Data Collection Methods - Surveys, Web Scraping, APIs, Databases - Introduction to Databases - Types of Databases: SQL and NoSQL - Basics of SQL - Data Storage and Management - Data Warehouses, Data Lakes

Exercise: Web scraping using python Quiz: QuizWhizzer

- **Week 6:** Data Cleaning and Preprocessing: Data Cleaning Techniques - Handling Missing Values, Outliers - Data Preprocessing - Normalization, Standardization, Encoding Categorical Data - Hands-on Data Cleaning Practice - Using Excel, Python (Pandas), R

Exercise: Error handling and Exceptions Quiz: Typeform - Create

- **Week 7:** Exploratory Data Analysis (EDA): Introduction to EDA - Importance of EDA - Descriptive Statistics - Mean, Median, Mode, Variance, Standard Deviation - Data Visualization Tools - Introduction to Matplotlib, Seaborn, ggplot2

Exercise: Perform EDA on given dataset Quiz: Quiz Maker | Make Free Online Quizzes in Minutes

- **Week 8: Data Visualization:** Principles of Data Visualization - Best Practices, Choosing the Right Chart - Creating Visualizations - Using Excel, Tableau, Power BI - Hands-on Visualization Practice - Creating Visualizations with Real Data

Exercise: Visual charts exercise Quiz: Play & Create Quiz - Quiz.com

- **Week 9:** Data Reporting and Communication: Creating Effective Reports - Report Writing Best Practices - Dashboard Design - Creating Dashboards with Tableau/Power BI - Presenting Data Insights - Data Storytelling Techniques

Exercise: Dashboard creation Quiz: Search from millions of quizzes - Quizizz

- **Week 10: Statistical Analytics:** Basic Statistical Concepts Probability, Distributions, Hypothesis Testing - inferential Statistics – Analyse relationship and make data driven decisions – Correlation analysis - Confidence Intervals, t-tests, ANOVA

Exercise: Sums Quiz: Mentimeter

- **Week 11:** Machine Learning Basics: Introduction to Machine Learning - Supervised vs. Unsupervised Learning - Key Algorithms for Data Analysts - Linear Regression, K-Means Clustering - Hands-on Machine Learning Practice - Building Simple Models with Python (Scikit-learn) - Predictive Analytics - Teach supervised learning and ensemble techniques for predictive modeling.

Exercise: Algorithm sums Quiz: QuizWhizzer

- **Week 12:** Capstone Project Work: Project Planning - Defining the Problem Statement, Data Collection - Project Execution - Data Cleaning, Analysis, Visualization - Project Review and Feedback - Iterating Based on Feedback

Our Proud Mentors

Abinesh

Finserv

Venkatesh

Mindgate

Arun

Google

Udaya Sree

Forbes