Course Name	DATA ANALYST
About the Course	Learn the latest skills and tools used by professional data analysts including Excel spreadsheets, Python, Pandas, Numpy, Jupyter Notebooks, and more. Also work with a variety of data sources and project scenarios to gain practical experience with data manipulation and applying analytical skills.
Key Skills You Will Learn	Data Analysis, Querying Databases, Data Generation, Data Augmenting, Data Science, Python Programming, Pandas, Jupyter notebooks, Numpy, Dashboards and Charts, dash, Data Visualization, Matplotlib, Dashboard, SQL and RDBMS, Model Selection, Predictive Modelling, Microsoft Excel, Pivot Table, Cloud Databases, Relational Database Management System (RDBMS), SQL, Microsoft Power BI, Predictive, Prescriptive Analytics for Decision Making
Course Pre-Requisite	None
Target Audience	Anyone aspiring for/advancing into Data Analyst/Data Science/AI/ML Jobs
Job prospects with this role	Entry Level - Data Analyst/ Data Scientist
Course Duration	~ 100 Hrs
Course Customisation	Course customisation (as needed by the student) is possible. Pls. contact us for the customised course curriculum, duration and fees
Certification	READYBELL Data Analyst Certificate
Mode of Training	Instructor-led 100% Online or 100% Classroom (Salt Lake, Kolkata - India) or hybrid mode (Online + Classroom) as suitable for the learner
Course Fees	Please contact us
Refund Policy	Get a 3-day free trial during which you can cancel at no penalty. After that, we don't give refunds
Job Assistance	Mock Interviews (pertaining to the course) from Industry Leaders, Job leads with extensive interactions with Industry Leaders working in the course relevant field, Job Guidance, Techniques of resume preparation, Networking,
Contact	**READYBELL SOFTWARE SERVICES PVT. LIMITED** **AH 12, SALT LAKE SECTOR 2, KOLKATA (INDIA) - 700 091** **E-MAIL: contact@readybellsoftware.com** **PH: +91 - 9147708045/9674552097, +91 - 33-79642872**

CURRICULUM		
Topic	**Sub-Topic**	**Duration (Hrs)**
Linear Algebra, Basic Statistics and Maths for Machine Learning	Linear Algebra for Machine Learning: Linear Polynomial, Notation, Operations, Vectors, Matrices, Matrix Factorization	8 Hrs
	Measure of central tendency, the measure of spread, five points summary	
	Probability Distributions, Bayes' theorem, central limit theorem.	
	Basics of sample and event space	
	Axioms of probability	
	Total Probability theorem and Bayes Theorem	
	Random variables, PMF and CDF	
	Discrete Distributions - Bernoulli, Binomial and Geometric Expectation and its properties	
	Variance and its properties	
	Continuous Distributions - uniform, exponential and normal Sampling from continuous distributions	
	Correlation, covariance, confidence intervals, hypothesis testing, F-test, Z-test, t-test, ANOVA, chi-square test, etc.	
	Descriptive Statistics: Mean, Median, Mode, Variance, and Standard Deviation	
	Quiz/Project	
Introduction to Data Analytics	Introduction to Data Science	8 Hrs
	Data Analysis	
	Microsoft Excel Spreadsheets	
	Data Visualization	
	Quiz/Project	
Excel Basics for Data Analysis	Data Analysis using Microsoft Excel	8 Hrs
	Getting Started With Using Microsoft Excel Spreadsheets	
	Cleaning & Wrangling Data using Microsoft Excel Spreadsheets	
	Analzing Data With Microsoft Excel Spreadsheets	
	Quiz/Project	
Data Visualization and Dashboards with Excel	Visualizing Data With Microsoft Excel	8 Hrs
	Creating Visualizations and Dashboards With Microsoft Excel	
	Quiz/Project	

Module	Topics	Hours
Python for Data Science, AI & Development	Setting Up Python Environment - Installing Anaconda/Jupyter Notebooks/Google Colab	16 Hrs
	Syntax, Variables, Data Types, Expressions and Statements	
	Functions, Modules, Conditionals, Loops, Branching, Recursion, Iteration	
	Strings, Lists, Tuples, Dictionaries	
	Files and Error Handling	
	Working with Data in Python	
	Computation with Python – NumPy/SciPy	
	Data Manipulation and Visualisation in Python- Pandas/Matplotlib	
	Introduction to Scikit-learn	
	Advanced Visualization with Seaborn: Statistical Plots, Multivariate Analysis	
	Collect data by the use of APIs and Web Scraping in Python – BeautifulSoup	
	Quiz/Project	
Databases and SQL For Data Science with Python	SQL	8 Hrs
	Relational Database and Tables	
	Accessing Databases with Python	
	Quiz/Project	
Data Analysis With Python	Data Importing	8 Hrs
	Data Wrangling	
	Exploratory Data Analysis	
	Model Development	
	Model Evaluation and Refinement	
	Quiz/Project	
Data Visualization With Python	Introduction to Data Visualization Tools	12 Hrs
	Basis and Specialized Visualization Tools	
	Advanced Visualizations and Geospatial Data	
	Creating Dashboards with Plotly and Dash	
	Quiz/Project	
Power BI	Data Visualization with Microsoft Power BI	4 Hrs
Types of Data Analytics	Descriptive Analytics	2 Hrs
	Diagnostic Analytics	
	Predictive Analytics	
	Prescriptive Analytics	
Predictive and Prescriptive Analytics	Predictive, Prescriptive Analytics for Decision Making	12 Hrs
Capstone Project	Data Analytics Capstone Project	12 Hrs
To register for this course please e-mail/call us		