

## About IntelliPaat

IntelliPaat is a fast growing professional training provider that is offering training in over 150 most sought-after tools and technologies. We have a learner base of 700,000 in over 32 countries and growing. For job assistance and placement we have direct tie-ups with 80+ MNCs.

### Key Features of IntelliPaat Training :

 <b>24x7</b>				
<b>Life Time Support and Assistance</b>	<b>Real Time Projects</b>	<b>Life Time Access and Free Upgrade</b>	<b>Job Assistance</b>	<b>Industry Recognised Certification</b>

## About the Course

This IntelliPaat Tableau Certification Training program will get you up to speed on concepts of data visualization with a firm understanding of Tableau Architecture. You will be well-versed in the concepts of Filters, Parameters, Graphs, Maps, Table Calculation and Dashboards. You will gain further expertise in data blending, data aggregation and R Connectivity with Tableau.

	<b>Instructor Led</b> <b>Duration – 30 Hrs</b> <b>Weekend Batch – 3 Hrs/Session</b> <b>Weekday Batch – 2 Hrs/Session</b>		<b>Self paced</b> <b>Duration – 16Hrs</b>
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## Why Take This Course ?

Tableau is by far one of the best business intelligence tools available in the market today. After completing the IntelliPaat Tableau reporting training course, you will be able to better analyze your business and develop highly insightful information.

- ❖ Global Business Intelligence and Analytics Market to Reach \$16.9 Billion in 2016 - Gartner
- ❖ Tableau is a leader in the Gartner Magic Quadrant for BI for fourth year - Gartner
- ❖ Average Tableau salaries are 77% higher than average for all other salaries. – indeed.com



## Course Contents

<p><b>Introduction to Data Visualization and Power of Tableau</b></p> <ul style="list-style-type: none"> <li>❖ What is data visualization</li> <li>❖ Comparison and benefits against reading raw numbers</li> <li>❖ Real usage examples from various business domains</li> <li>❖ Some quick powerful examples using Tableau without going into the technical details of Tableau</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ NA</li> </ul>
<p><b>Introduction to Tableau</b></p> <ul style="list-style-type: none"> <li>❖ Installation of Tableau Desktop</li> <li>❖ Architecture of Tableau</li> <li>❖ Interface of Tableau (Layout, Toolbars, Data Pane, Analytics Pane etc)</li> <li>❖ How to start with Tableau</li> <li>❖ Ways to share and exporting the work done in Tableau</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ NA</li> </ul>
<p><b>Working with Metadata</b></p> <ul style="list-style-type: none"> <li>❖ Connection to Excels, PDFs and Cubes</li> <li>❖ Managing Metadata and Extracts</li> <li>❖ Data Preparation and dealing with NULL values</li> <li>❖ Different types of Data Joins (Inner, Left, Right, Outer) and Union</li> <li>❖ Use Data Extraction</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Extract data from csv, Database, etc</li> <li>❖ Data Preparation and cleansing data</li> <li>❖ Working with different types of joins</li> </ul>
<p><b>Creation of sets</b></p> <ul style="list-style-type: none"> <li>❖ Marks</li> <li>❖ Highlighting</li> <li>❖ Sort and Group</li> <li>❖ Working with Sets (Creation of sets, Editing sets, IN/OUT, Sets in Hierarchies)</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Highlighting the values in the column</li> <li>❖ Creation of groups using two methods</li> <li>❖ Different types of set</li> <li>❖ Create combined set</li> </ul>
<p><b>Working with Filters</b></p> <ul style="list-style-type: none"> <li>❖ Filters (Addition and Removal)</li> <li>❖ Filtering continuous dates, dimensions, measures</li> <li>❖ Interactive Filters</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ How to create a basic filter</li> <li>❖ Filter using conditions</li> <li>❖ Creating constant filters</li> <li>❖ Difference between Extract and data source filter</li> </ul>

<p><b>Parameters</b></p> <ul style="list-style-type: none"> <li>❖ Create Parameters</li> <li>❖ Parameters in Calculations</li> <li>❖ Using Parameters with Filters</li> <li>❖ Column Selection Parameters</li> <li>❖ Chart Selection Parameters</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ create different types of parameters</li> </ul>
<p><b>Working with Calculations &amp; Expressions</b></p> <ul style="list-style-type: none"> <li>❖ Calculation Syntax and Functions in Tableau</li> <li>❖ Types of Calculations (Table, String, Logic, Date, Number, Aggregate)</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create a calculated field using various functions</li> <li>❖ Create an ad hoc Calculation</li> <li>❖ Create a Table Calculation to show all the table functions</li> </ul>
<p><b>Quick Table &amp; LOD Calculations</b></p> <ul style="list-style-type: none"> <li>❖ Quick Table Calculations ; LOD Expressions (concept and syntax)</li> <li>❖ Aggregation and Replication with LOD Expressions</li> <li>❖ Nested LOD Expressions</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create Fixed LOD, Include LOD and Exclude LOD</li> </ul>
<p><b>Charts and Graphs</b></p> <ul style="list-style-type: none"> <li>❖ Dual Axes Graphs</li> <li>❖ Histogram (Single and Dual Axes)</li> <li>❖ Box Plot</li> <li>❖ Pareto Chart</li> <li>❖ Motion Chart</li> <li>❖ Funnel Chart</li> <li>❖ Waterfall Chart</li> <li>❖ Tree Map</li> <li>❖ Heat Map</li> <li>❖ Market Basket analysis</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create different types of charts and its uses</li> </ul>
<p><b>Dashboards and Stories</b></p> <ul style="list-style-type: none"> <li>❖ Build and Format a Dashboard (Size, Views, Objects, Legends and Filters)</li> <li>❖ Dashboards using Actions</li> <li>❖ Real time Dashboard Examples</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create a Dashboard using various visualization</li> <li>❖ Create an Action using Filters, Highlighter and URL</li> <li>❖ Use layout containers on the Dashboard</li> </ul>
<p><b>Dashboards and Stories</b></p> <ul style="list-style-type: none"> <li>❖ Best Practices for Creative and Interactive Dashboards</li> <li>❖ Create Stories (Intro of Story Points, Creating and Updating Story Points, Adding Visuals in Stories, Annotations with Description)</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create a Story point and layout</li> </ul>

<p><b>Working with Mapping</b></p> <ul style="list-style-type: none"> <li>❖ Coordinate points, Plotting Longitude and Latitude</li> <li>❖ Editing Unrecognized Locations</li> <li>❖ Custom Geocoding</li> <li>❖ Polygon Maps</li> <li>❖ WMS: Web Mapping Services</li> <li>❖ Background Image (Add Image, Plot Points on Image, Generate coordinates from Image)</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create a Symbol map and filled map</li> <li>❖ Create Custom territories</li> <li>❖ Create mapbox maps and WMS Maps</li> <li>❖ Create Polygon Maps</li> <li>❖ Create a Twbx file using background images</li> </ul>
<p><b>Data Blending &amp; Data Extraction</b></p> <ul style="list-style-type: none"> <li>❖ Cross Database joining</li> <li>❖ Data Blending</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create Data Blending using multiple data Sources</li> <li>❖ Create a Cross Database join between sales and Product 2016 Data sources</li> </ul>
<p><b>Visual Analytics</b></p> <ul style="list-style-type: none"> <li>❖ Formatting Data (Labels, Annotations, Tooltips, Edit axes)</li> <li>❖ Formatting Pane (Menu, Settings, Font, Alignment, Copy-Paste)</li> <li>❖ Trend and Reference Lines</li> <li>❖ Forecasting</li> <li>❖ k-means Cluster</li> <li>❖ Analysis in Tableau</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create a Reference line to show Custom and Average of Sales</li> <li>❖ Create a Forecasting using time series data</li> <li>❖ Create Trend analysis over sales and profit measure</li> </ul>
<p><b>Integration of Tableau with R and Python</b></p> <ul style="list-style-type: none"> <li>❖ Introduction to R Language</li> <li>❖ Applications and Use Cases of R</li> <li>❖ Deploying R on Tableau Platform</li> <li>❖ Learning R functions in Tableau; Integration with Python</li> </ul>	<p><b>Hands on Exercises</b></p> <ul style="list-style-type: none"> <li>❖ Create R connection</li> <li>❖ Create a calculated feild using R</li> <li>❖ Create Python connection</li> <li>❖ Create a calculated feild using python</li> </ul>

## Tableau Projects

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### Project 1

#### Tableau Interactive Dashboard

##### Data Set – Sales

**Objective** – This project is involved with working on a Tableau dashboard for sales data. You will gain in-depth experience in working with dashboard objects, learn about visualizing data, highlight action, and dashboard shortcuts. With a few clicks you will be able to combine multiple data sources, add filters and drill down specific information. You will be proficient in creating real time visualizations that are interactive within minutes.

Upon completion of this project you will understand how to create a single point of access for all your sales data, ways of dissecting and analyzing sales from multiple angles, coming up with a sales strategy for improved business revenues.

### Project 2

#### Domain – Crime Statistics (Public Domain)

**Objective** –The Project aims to show the types of crimes and their frequency that happen in the District of Columbia. Also to provide the details of the crimes like, the area/location and day of the week the crime has happened

##### Problem statement

Police departments are often called upon to put more “feet on the street” to prevent crime and keep order. But with limited resources, it’s impossible to be everywhere at once. This visualization shows where crimes take place by type and which day of the week. This kind of information gives local police more guidance on where they should deploy their crime prevention efforts.

- ❖ Map should be plotted at Block site address level
- ❖ Show the Offense, Location and Date of Crime occurrence.
- ❖ Show the Number of incidents and frequency in percentage for each type of crime happened(Offense)
- ❖ Show each incident happened every month by week and weekday and by offense type
- ❖ The dashboard should have Crime type and District filters which will be applicable to all three sheets in the dashboard
- ❖ An action from Map should filter out the other two sheets accordingly
- ❖ An action from tree map and bar chart should highlight the remaining two sheets according to the selection

## Project 3

### Domain – Healthcare

**Objective** –Visual Mapping between Vaccination rate and Measles outbreak

### Problem statement

Plot measles outbreaks depending on the coverage of population

Plot measles infection cases before 1st dose, between 1st and 2nd dose and after the 2nd dose of measles vaccination

Plot the correlation between immunity when vaccination coverage is high within schools

Plot correlation between poor urban areas which were not vaccinated at high rate and other areas which were vaccinated properly

**Lab Environment** :Tableau Desktop (Better to use latest version which is 10.3 or any version later 10.0 will also have the impact)

## What makes us different

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Supriya

*"I wanted to have a grip on reporting and visualization tools, I decided to enroll for Tableau Certification. The faculty was focused on providing hands-on experience rather than just providing theoretical knowledge. Now I consider myself as a full-fledged BI professional" ...[Read More!](#)*

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