

WWW.VIJAYKUMARCHIRUTHA.COM

**VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES**



www.vijaykumarchirutha.com

**VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES**

Educating The World

81431 86860

SQL (DATA LAYER)

- **Purpose:** Stores and organizes raw data in structured form (tables, relations).
- **Key Role:** Provides clean, queryable data for Tableau and AI models.
- **Concepts:**
- **Data extraction:** Selecting relevant subsets of data using SQL queries.
- **Data transformation:** Aggregating, joining, and filtering to prepare features for analysis.
- **Views and stored procedures:** Encapsulate logic that Tableau or AI modules can reuse.

TABLEAU (VISUALIZATION & ANALYTICS LAYER)

- **Purpose:** Transforms data into visual insights.
- **Key Role:** Connects to SQL sources, interprets AI model outputs, and communicates insights visually.
- **Concepts:**
 - **Data connection:** Tableau connects live or through extracts to SQL databases.
 - **Calculated fields:** Simple formulas or AI-driven predictions displayed in dashboards.
 - **Storytelling and interactivity:** Turning analytics into user-friendly dashboards and narratives.
- **AI features:** Built-in modules like Explain Data, Ask Data, and Data Stories that use AI for pattern detection and natural language explanations.

AI / MACHINE LEARNING (INTELLIGENCE LAYER)

- **Purpose:** Adds predictive or cognitive capabilities to data analysis.
- **Key Role:** Enhances Tableau visualizations with forecasts, classifications, and anomaly detection.
- **Concepts:**
 - **Predictive modeling:** Using historical data (from SQL) to estimate future outcomes.
 - **Automated insights:** AI algorithms surface hidden trends or correlations automatically.
 - **Natural language and narratives:** AI translates numeric data into plain-language summaries.
- **Integration:** AI can run inside the database (SQL-based ML), within Tableau (Einstein Discovery), or externally (Python/TabPy).

COMBINED WORKFLOW CONCEPT

- **SQL Layer:** Collect and prepare structured data.
- **AI Layer:** Train or apply models using that data (forecast, classify, detect anomalies).
- **Tableau Layer:** Visualize both the raw data and AI outputs, enabling decision-making.

CONCEPTUAL BENEFITS

- **End-to-end intelligence:** From data storage → insights → prediction → visualization.
- **Automation:** AI reduces manual analysis and enhances data discovery.
- **Accessibility:** Tableau makes AI insights understandable for non-technical users.
- **Scalability:** SQL and AI modules can process large datasets efficiently before visualization.



www.vijaykumarchirutha.com

VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES

Educating The World

81431 86860

OUR SERVICE

WE ARE PROVIDING MULTIPLE SOFTWARE COURSES

- DATA SCIENCE WITH AI
- DATA ANALYTICS WITH AI
- DATA ANALYST AND BUSINESS ANALYST WITH AI
- MANUAL TESTING AND SELENIUM WITH AI
- PYTHON FULL STACK WITH AI
- JAVA FULL STACK WITH AI
- DIGITAL MARKETING WITH AI
- TABLEAU + SQL WITH AI
- ORACLE, SQL, MYSQL
- EXCEL AND ADVANCED EXCEL WITH AI
- SAP [ALL MODULES]
- SALESFORCE
- GEN AI
- CYBER SECURITY WITH AI
- VIDEO EDITING COURSE
- SERVICE NOW
- MULESOFT
- AWS/AZURE DEVOPS
- MS OFFICE
- POWER APPS

WWW.VIJAYKUMARCHIRUTHA.COM

About US

- We are Providing the Software Courses for both Online and Offline
- We have well Experienced and Real Time Trainers
- We give the best content to cover all your course syllabus and its practical knowledge
- We give 2 to 3 Assignments to our students which helps the more interactivity with course and its practical real time scenario knowledge
- We explains the 2 to 3 projects and letting the students to know to how to do real time projects once they get selected



www.vijaykumarchirutha.com

VIJAY KUMAR CHIRUTHA

SOFTWARE COURSES

Educating The World

81431 86860

THANK YOU SO MUCH

CONTACT US

+91 - 81431 86860

WWW.VIJAYKUMARCHIRUTHA.COM

HYDERABAD



www.vijaykumarchirutha.com

VIJAY KUMAR CHIRUTHA
SOFTWARE COURSES

Educating The World

81431 86860