ShikshaVertex

Data Science

Become a Master of Data Science

SOLO SPRINT

LIVE EDGE

CAREER EDGE

Added Extra Credentials From Leaders Like IBM

(Give The Exam.Get Certified.Stand Out.)

IBM SkillsBuild

#startupindia

Skill India
कौशल भारत - कुशल भारत

About ShikshaVertex

Shaping Skills. Elevating Careers

ShikshaVertex is a next-generation EdTech startup committed to transforming careers through powerful, practical upskilling. In an ever-evolving job market, we bridge the gap between academic knowledge and industry-ready skills.

Our mission is to empower students, job-seekers, and professionals with the tools they need to succeed — from foundational skills to advanced specializations in high-demand fields.

We believe that education is not just about learning — it's about evolving. With industry-aligned curriculum, expert mentorship, and outcome-driven training, ShikshaVertex is where ambition meets execution.

Career-Focused Upskilling

Mentor Support

Industry-Relevant Curriculum

Flexible Learning

Hands-on Learning

Certification & Recognition

ShikshaVertex

Why ShikshaVertex is Different From Rest?

Built Different: Our Unique Edge

Outcome-Driven Learning

Every course is designed with clear career outcomes and job-readiness as the end goal.

Industry-Curated Curriculum

Programs are co-created with industry professionals to stay aligned with current and future skill demands

Soft Skills Integration

We don’t stop at technical skills — communication, leadership, and interview readiness are built in.

Mentorship That Matters

Direct access to mentors who are real-world professionals, not just instructors.

Real-World Projects

Learners build a portfolio of hands-on projects that showcase practical expertise.

Placement Support

End-to-end job assistance, including resume building, mock interviews, and employer connections.

While many EdTech platforms offer courses, ShikshaVertex is built around outcomes. We don’t just teach — we transform.

Our programs are meticulously designed to go beyond theoretical knowledge and focus on practical, real-world skills that employers actually look for.

We blend cutting-edge curriculum with mentorship, hands-on learning, and career development, making sure every learner not only learns but levels up — personally and professionally. At ShikshaVertex, we believe in learning that leads to earning.

Because your career deserves more than just a Certificate

ShikshaVertex

Our Top Recruiters

accenture · Google · Microsoft · ORACLE

Tech Mahindra · Deloitte. · TCS TATA CONSULTANCY SERVICES · amazon

fractaboo INTELLIGENCE FOR IMAGINATION · IBM. · HCL · BOSCH

Explore Career Opportunities With Our

25+ Domains

Discover Your Career Path

Network with Industry Leaders

Build a Standout Portfolio

Follow Us For Career-Changing Content!

ShikshaVertex

Scope of Data Science

11.5 Million
jobs by 2025

12,000 +
Indian businesses are present on Linkedin

$ 230 billion
Industry in India by 2025

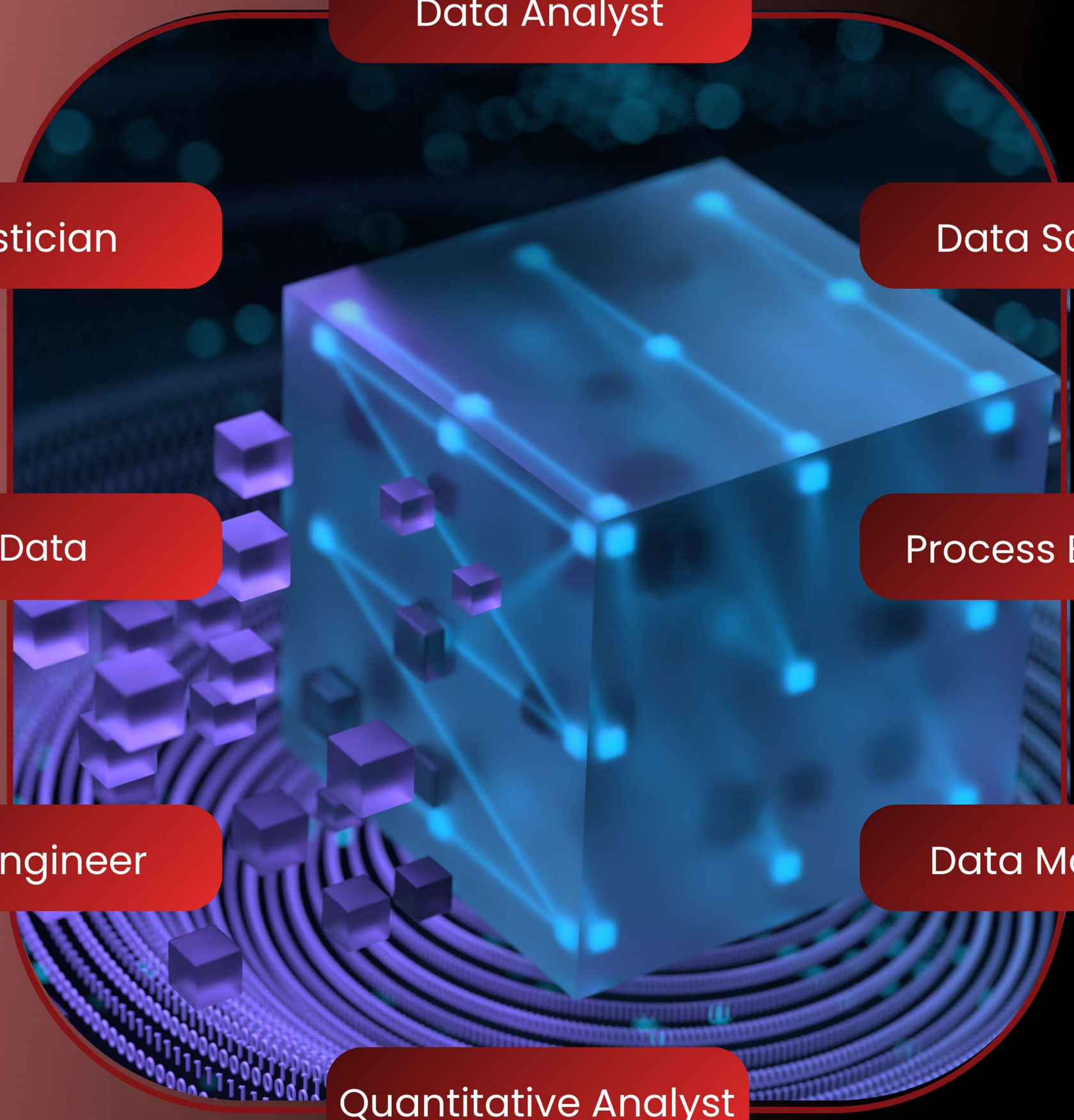
83% CFOs
are set to spend more on data science

DATA SCIENCE

Step into the future with data science — where innovation meets opportunity.
Automate tasks, solve real-world problems, and lead in tomorrow's world.
Join data science today and be part of the revolution shaping our future.

ShikshaVertex

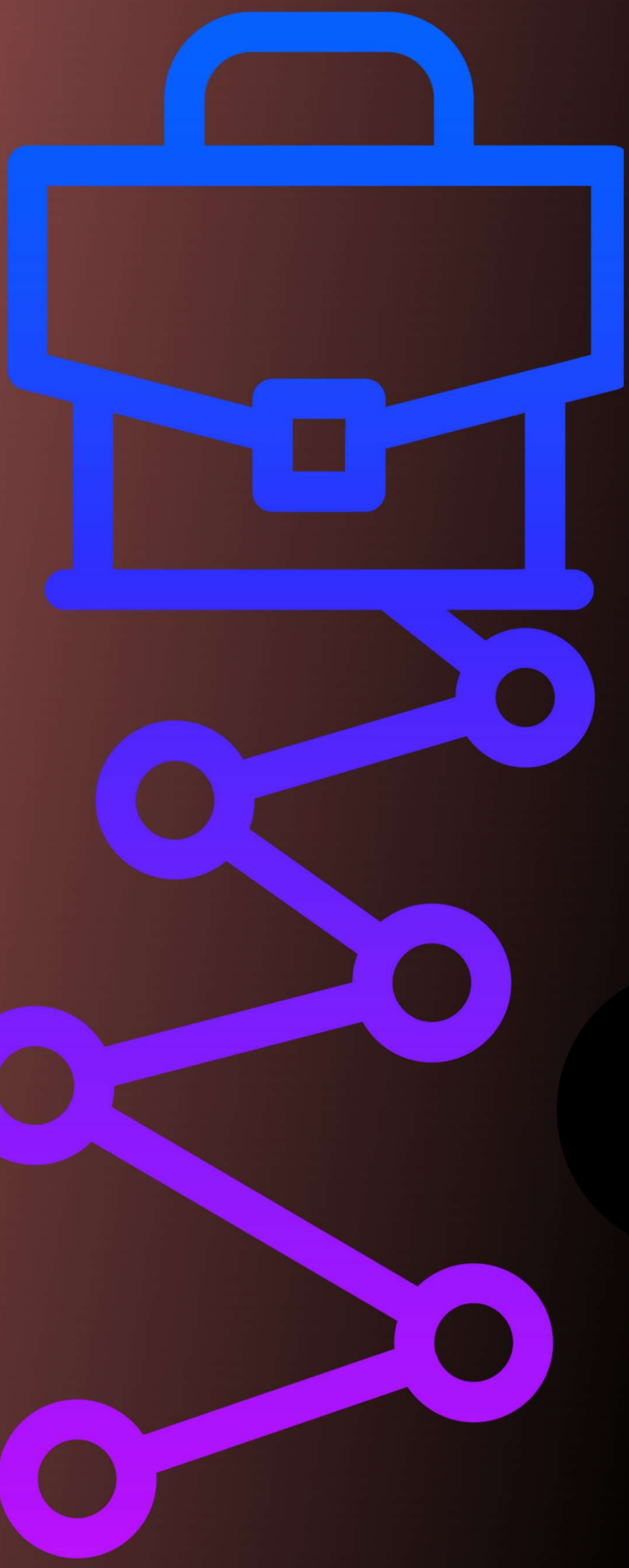
Here is all the Career Fields you can Excel at



- Data Analyst
- Statistician
- Data Scientist
- Big Data
- Process Engineer
- Data Engineer
- Data Manager
- Quantitative Analyst

ShikshaVertex

Here is how your **Career Trajectory** will look like



Chief Data Officer

CTC - 50 LPA

Lead Data Analyst

CTC -35 LPA

Data Science Manager

CTC - 30 LPA

Sr. Data Scientist

CTC - 20 LPA

Data Scientist

CTC - 08 LPA

Data Analyst

CTC - 06 LPA

ShikshaVertex

1 Data Science Foundations & Python Programming Essentials

Introduction to Data Science

- ✓ Definition, Lifecycle, and Scope
- ✓ Real-world Applications
- ✓ Key Tools in Data Science
- ✓ Modern Data Ecosystem

Python Fundamentals

- ✓ Environment Setup and Syntax
- ✓ Data Types and Control Flow
- ✓ Functions and Modules
- ✓ Best Coding Practice

Core Library: NumPy

- ✓ Creating and Manipulating Arrays
- ✓ Array Indexing and Slicing
- ✓ Vectorized Operations
- ✓ Mathematical and Statistical Functions

ShikshaVertex

2 Data Manipulation, Cleaning & Exploratory Data Analysis (EDA)

Data Handling with Pandas

- ✔ Series and DataFrames
- ✔ Importing and Reading Data
- ✔ Data Selection (loc, iloc)
- ✔ Basic Operations and Summaries

Data Wrangling and Cleaning

- ✔ Handling Missing Values
- ✔ Removing Duplicates and Inconsistencies
- ✔ Data Type Conversion
- ✔ Basic Feature Engineering

Data Aggregation and Analysis

- ✔ Grouping and Aggregation
- ✔ Merging and Joining DataFrames
- ✔ Pivot Tables
- ✔ Summarizing Key Insights

Exploratory Data Analysis (EDA)

- ✔ Descriptive Statistics
- ✔ Correlation and Covariance
- ✔ Outlier Detection
- ✔ Initial Data Visualization

3 Data Visualization & Statistical Inference

Data Visualization Principles

- ✔ Importance of Visualization
- ✔ Chart Selection and Design
- ✔ Storytelling with Data
- ✔ Common Visualization Errors

Plotting Techniques

- ✔ Matplotlib Basics (Line, Bar, Scatter, Histogram)
- ✔ Seaborn Plots (Boxplot, Heatmap, Pairplot)
- ✔ Plot Customization and Styling
- ✔ Comparative Visual Analysis

Probability & Distributions

- ✔ Basic Probability Concepts
- ✔ Normal Distribution
- ✔ Central Limit Theorem
- ✔ Sampling and Randomness

Hypothesis Testing & Estimation

- ✔ Confidence Intervals
- ✔ Null vs. Alternative Hypotheses
- ✔ P-values and Significance
- ✔ T-test and Chi-square Applications

4 Machine Learning Fundamentals & Model Building

Introduction to Machine Learning

- ✔ Types of Machine Learning
- ✔ ML Workflow and Pipeline
- ✔ Overview of Scikit-learn
- ✔ Real-world ML Applications

ShikshaVertex

Supervised Learning: Regression

- ✓ Linear Regression Concepts
- ✓ Model Training and Prediction
- ✓ Evaluation Metrics (R^2, MSE, RMSE)
- ✓ Interpreting Regression Results

Supervised Learning: Classification

- ✓ Logistic Regression Basics
- ✓ Sigmoid Function and Decision Boundaries
- ✓ K-Nearest Neighbors (KNN)
- ✓ Model Performance Evaluation

Model Evaluation & Best Practices

- ✓ Train/Test/Validation Splits
- ✓ Classification Metrics (Precision, Recall, F1)
- ✓ Overfitting and Underfitting
- ✓ Model Improvement Techniques

ShikshaVertex

Tools and Technologies you'll Learn

pandas

python

NumPy

matplotlib

scikit learn

seaborn

ShikshaVertex

Minor Projects :

Air Quality Data Analysis	Analyze air pollution levels and visualize trends over time for different cities.
YouTube Channel Statistics	Study engagement metrics (likes, views, comments) to understand what drives popularity.
Spotify Song Trend Analysis	Examine song attributes (danceability, energy, tempo) to discover musical patterns.

Major Projects :

Predicting House Prices	Train regression models to estimate property prices using multiple features.
Stock Market Price Prediction	Use time series analysis or regression to predict stock price movements.
Healthcare Disease Prediction	Build models to predict conditions like diabetes or heart disease using patient data.

ShikshaVertex

Showcase your Learning Journey

Certificate of Completion from ShikshaVertex

Certificate of Internship from ShikshaVertex

ShikshaVertex

CONTACT US

+91-9978456702

www.shikshavertex.in

2nd floor, Srivari Arcade, NGR Layout, Roopena Agrahara, Bommanahalli, Bengaluru, Karnataka 560068

admin@shikshavertex.in