AWDIZ INSTITUTE

Data Science Course with Gen AI

From **Classroom Learning** to a **Data Science Career**

Learn What Gets You Hired



Course Highlights

- **Project-Based** Learning
- **Industry-Aligned** Curriculum
- **100% Job** Guarantee
- Salary up to **8 LPA**

About
Awdiz Institute

Awdiz Institute is a student-first IT training institute built on clarity, structure, and career security. **Since 2013**, Awdiz Institute has focused on one clear mission: enabling learners to move confidently from education to employment.

Unlike conventional training centers, Awdiz Institute does not limit itself to teaching tools or concepts. Every Course is designed with a defined career outcome, supported by **structured mentorship**, practical exposure, and placement accountability.

The institute follows a **mentor-led approach**, where students are guided step by step through fundamentals, applied learning, and real-world scenarios. At the same time, Awdiz Institute acts as a guardian of the learner's career by offering placement-backed courses that reduce uncertainty after course completion.

At Awdiz Institute, education is not an experiment.

It is a guided and protected path from learning to livelihood

Over the years, Awdiz Institute has:

A Track Record of
8,000+ Careers Transformed by the Team

Worked with
100+ hiring companies

Maintained
100% Placement Record

Served students across
13+ cities in India



Data Science
Is a Workforce Necessity

India's economy is rapidly becoming data-driven. Across IT services, BFSI, healthcare, e-commerce, manufacturing, and government initiatives, data science and analytics skills are now core workforce requirements.

What the **Indian market clearly shows:**

Demand for **Data Science & AI professionals in India is expected to exceed 1 million by 2026**

Source: Source: NASSCOM – State of Data Science & AI Skills in India

India's **AI market is projected to reach USD 17 billion by 2027**, growing at a **CAGR of 25–35%**, creating significant demand for **Data Science and AI professionals.**

Source: Source: BCG & NASSCOM, AI Radar 2025: India AI Market Report

1.37 million data science roles are expected to remain unfilled by 2028 due to lack of industry-ready talent

Source: Source: Analytics Insight – Data Science Education Report 2023



How a Data Science
Career Evolves

A data science career grows in structured stages, combining technical depth, business understanding, and leadership capability.

Career Path & Average Salaries (India)



What Does A
Data Scientist Really Do?

A Data Scientist transforms raw data into intelligent solutions using statistics, machine learning, and AI. They uncover patterns, build predictive models, and help businesses make smarter, data-driven decisions.

From Raw Data to Intelligent Decisions

A Data Scientist combines courseming, mathematics, machine learning, and AI to solve complex business problems and build systems that can predict future outcomes.

They work at the intersection of:

- Data Science
- Machine Learning & AI
- Mathematics & Statistics

Key Responsibilities

- Collecting, cleaning, and preparing large datasets
- Discovering patterns and hidden insights from data
- Building Machine Learning & AI models
- Training, testing, and optimizing predictive algorithms
- Deploying intelligent solutions to solve real-world business problems



Across industries, Data Scientists leverage AI and machine learning to predict outcomes, automate decisions, and drive business innovation.

AWDIZ INSTITUTE

Data Science Course with Gen AI

Designed for Careers, Not Just Certificates

The Data Science Course at Awdiz Institute is designed for:

- Final-year students
- Fresh graduates
- Working professionals (0–2 years)
- Non-technical career switchers

Course Details

Duration:
8 Months

Mode:
Blended (Offline + Online)

Training Hours:
200 hours

Placement:
100% Job Guarantee
after successful completion

Career Opportunities:
Salary Up to 8 LPA

Course Highlights

100% Job Guarantee Course

Placement support provided after successful completion of the course, backed by Awdiz Institute's established hiring network.

Mentor-Led & Personalized Training

Learn under experienced industry mentors with personalized guidance, regular doubt-solving, and continuous feedback throughout the course.

Industry-Aligned Curriculum

Curriculum designed around current Data Science hiring requirements and real business use cases.

Hands-On Project Experience

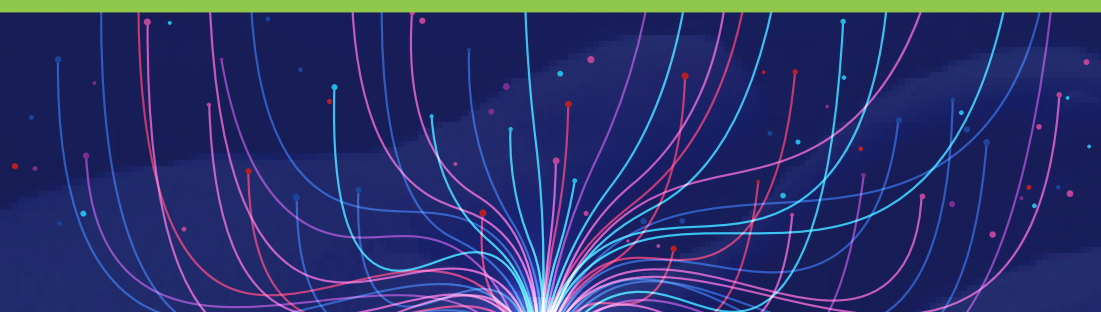
Work on multiple industry-oriented projects that help you apply concepts and build real problem-solving skills.

Blended Learning Model

A flexible mix of instructor-led sessions, recorded content, and guided practice for consistent learning progress.

Career & Placement Readiness

Build a strong project portfolio, prepare for interviews, and receive placement-focused support to transition confidently into a Data Science role.



Curriculum **Overview**

Course Curriculum

A Structured Learning Path From Skills to Placement

This curriculum is designed to take learners step by step from core data fundamentals to advanced Data Science and AI applications. Every module is aligned with industry requirements, practical problem-solving, and the skills companies expect at the time of hiring.

MODULE 1 ADVANCED EXCEL

Excel Fundamentals Introduction

- MS Office Versions (similarities and differences)
- Interface (latest available version)
- Rows and Columns
- Keyboard shortcuts for easy navigation
- Data Entry (Fill Series)
- Find and Select
- Clear Options
- Ctrl + Enter
- Formatting options (Font, Alignment, Clipboard, Copy, Paste Special)

Formulas, Functions & Referencing

- Referencing, Named Ranges, Uses
- Mathematical calculations with Cell Referencing (Absolute, Relative, Mixed)
- Functions with Named Range
- **Arithmetic Functions:**
  SUM, SUMIF, SUMIFS, COUNT, COUNTA, COUNTIFS, AVERAGE, AVERAGEIFS, MAX, MAXIFS, MIN, MINIFS

Logical Functions

- IF, AND, OR, Nested IFs, NOT, IFERROR
- Usage of Mathematical and Logical functions nested together

Lookup Functions & Data Validation

- LOOKUP
- VLOOKUP
- Nested VLOOKUP
- HLOOKUP
- INDEX
- NDEX with MATCH
- INDIRECT
- OFFSET
- Data Validation (with dependent dropdown)

Date, Text & Data Handling

- Date Functions: DATE, DAY, MONTH, YEAR, YEARFRAC, DATEDIFF, EOMONTH
- Text Functions: TEXT, UPPER, LOWER, PROPER, LEFT, RIGHT, SEARCH, FIND, MID, Flash Fill
- Data Cleaning & Data Type Identification
- Remove Duplicates, Formatting & Filtering
- Number Formatting (shortcuts)
- CTRL + T (Convert to Excel Table)
- Sorting, Advanced Sort, Filter, Advanced Filter

Data Visualisation & Reporting

- Conditional Formatting (Icon sets, Highlighted colours, Data bars, Custom formatting)
- Charts: Bar, Column, Line, Scatter, Combo, Gantt, Waterfall, Pie

Pivot Tables & Dashboards

- Pivot Reports: Insert, Interface, Crosstab Reports, Filters
- Pivot Charts & Slicers
- Calculated Fields & Calculated Items
- Dashboard Creation, Types & Design Principles

Power Query & Power Pivot (Excel)

- Power Query Interface & Tabs
- Connecting data from Excel, text files & other sources
- Data Cleaning & Transformation
- Loading data into Excel Query
- Merge & Append
- Insert Power Pivot
- Differences between Pivot & Power Pivot
- Connecting to databases, workbooks & webpages

VBA & Macros

- View Tab & Developer Tab
- Recording Macros (Absolute & Relative Reference)
- Formatting tables using Macros
- Playing Macros via Button & Shape
- Editing Macros
- VBA Basics: Subs, Ranges, Sheets
- Conditional logic, loops
- User interaction using Message Boxes, Input Boxes & User Forms

MODULE 2 MYSQL & DATABASE MANAGEMENT

Database Fundamentals

- Introduction to MySQL
- Databases & RDBMS
- Normalisation concepts
- Types of RDBMS
- MySQL Workbench Installation

SQL Commands & Data Types

- SQL Commands: DDL, DML, DQL, DCL, TCL
- SQL Data Types: Numeric, Character, Datetime

Queries & Operators

- SELECT, LIMIT, DISTINCT
- WHERE, AND, OR
- IN, NOT IN, BETWEEN
- EXISTS, IS NULL, IS NOT NULL
- Wildcards, ORDER BY

Conditional & Aggregation Logic

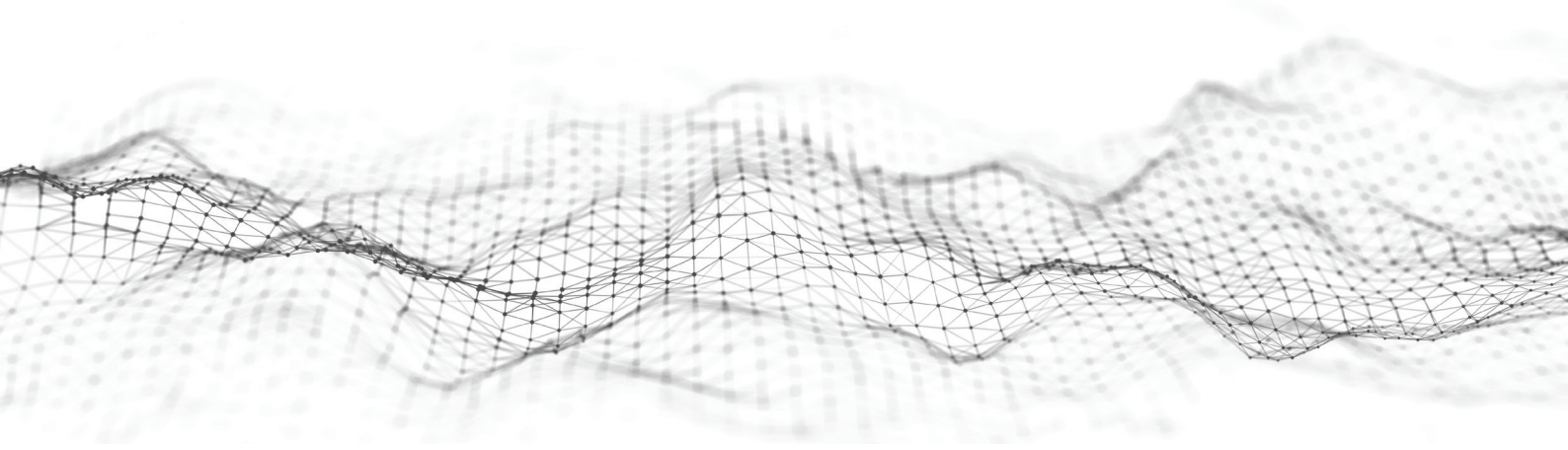
- CASE WHEN handling NULL values
- IFNULL, COALESCE
- GROUP BY, HAVING
- COUNT, SUM, AVG, MIN, MAX
- String Functions
- Date & Time Functions

Constraints, Joins & Advanced SQL

- Constraints: NOT NULL, UNIQUE, CHECK, DEFAULT
- Primary Key & Foreign Key
- Joins: Inner, Left, Right, Cross, Self, Full Outer
- DDL Operations: Create, Drop, Alter, Rename, Truncate, Modify, Comment
- DML & TCL Commands
- Indexes & Views
- Stored Procedures (IN, OUT, INOUT)
- User-Defined Functions
- Window Functions: Rank, Dense Rank, Lead, Lag, Row Number
- UNION, UNION ALL, INTERSECT
- Subqueries & Multiple Queries
- Exception Handling & Triggers (Before & After DML)

MODULE 3 POWER BI

- Power BI Installation & Setup
- Power BI Desktop vs Power Query
- Data Sources & Visualisations
- Geo Maps, Financial Dashboards
- AI Visuals & Q&A Chatbot
- Power Query Editor (Transformations & Modelling)
- Relationships, Data Cardinality & Filters
- **DAX Expressions**:
  Tables, Calculated Columns, Measures, Time Intelligence
- Drill Down, Drill Through, Tooltips, Bookmarks
- Custom Visuals & Publishing
- Power BI Service, Schedule Refresh, Dataflow



MODULE 4 PYTHON FOR DATA SCIENCE

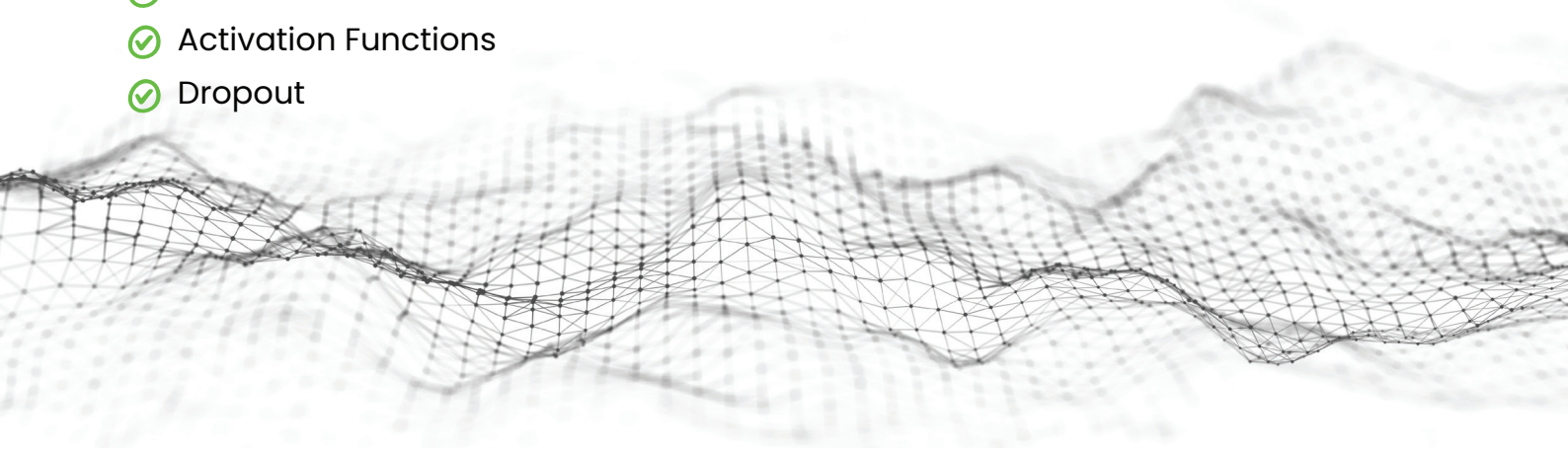
- Anaconda Installation
- Python Basics & Data Types
- Variables, Operators, Lists, Tuples, Dictionaries, Sets
- String Operations & Regular Expressions
- Loops, Functions, Lambda Functions
- File Handling & CSV Processing
- Exception Handling & Custom Exceptions
- Libraries: Pandas, NumPy, Matplotlib, Seaborn
- Data Analysis & Visualisation Projects

MODULE 5 MACHINE LEARNING

- EDA & Preprocessing
- Regression & Regularisation
- K-Nearest Neighbours
- Logistic Regression
- Support Vector Machine
- Decision Tree
- Bagging & Boosting
- Random Forest
- K-Means & Hierarchical Clustering
- Principal Component Analysis
- Association Rules

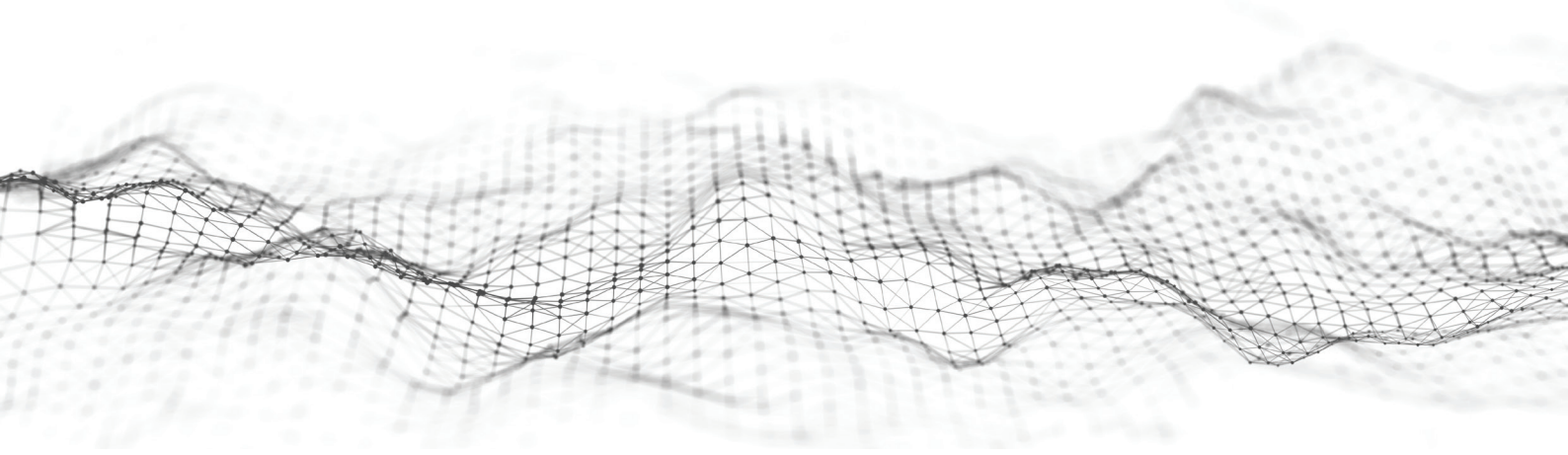
MODULE6 DEEP LEARNING

- Perceptron
- Forward & Backward Propagation
- Gradient Descent
- Activation Functions
- Dropout



MODULE 7 NATURAL LANGUAGE PROCESSING

- NLP Applications & Components
- Text Preprocessing
- Stopwords, Bag of Words
- Stemming & Lemmatization
- POS Tagging & Named Entity Recognition
- Vectorisation
- Text Classification using ML & ANN
- Sentiment Analysis
- RNN, Bi-Directional RNN
- LSTM, GRU
- Transformers & Attention Mechanism
- Hugging Face Transformers
- RASA Configuration
- Intent, Entity, Response & Action Modules



Don't Just Learn Data Science. Learn Data Science with Gen AI.

At Awdiz Institute, Generative AI is seamlessly integrated into the Data Science curriculum, equipping you with practical, future-ready skills through hands-on learning and real-world applications.

Day	Core Module	Core Focus & Learning Goals	Project Milestone Deliverable
Day-1	Introduction to MLOps & Project Setup	Establish what MLOps is, identify notebook failures, and implement structured Git version control schemas.	Initialize a local Git repository with strict industrial source and data folder structures.
Day-2	RESTful Web Operations via FastAPI	Master modern client-server web execution mechanics and build live, parameter-validated FastAPI routes.	Develop an active FastAPI app that validates incoming user string inputs using Pydantic templates.
Day-3	Environment Control & Docker Containment	Solve local software environment drift issues using code isolation techniques and explicit Docker recipes.	Write a production Dockerfile, compile an image snapshot, and route local container web ports.
Day-4	GenAI Foundations & Text Tokenization	100% Math-Free Theory. Define clear AI taxonomies, explore prediction loops, and dissect word chunk catalogs.	Map out text characters, boundary limits, and conceptual word token tracking tables (Conceptual).

Day	Core Module	Core Focus & Learning Goals	Project Milestone Deliverable
Day-5	Core RAG Component & Ingestion Theory	100% Math-Free Theory. Study hallucinations, map open-book context strategies, and explore shelving layout maps.	Design a complete visual blueprint tracking paragraph splits, character sizes,
Day-5	Hands-on Ingestion: Document Processing	Write clean, raw Python scripts to parse file paths, build custom chunk splitters, and handle window overlaps.	Build an isolated python ingestion script (`src/ingest.py`) that outputs clean chunk arrays to JSON.
Day-7	Hands-on Storage: Vector Databases	Deploy a standalone vector store container, initialize unique collections, and map processing load streams.	Connect the chunk parser to a live running vector storage layer and push index vectors with metadata payloads.
Day-8	Hands-on Retrieval & Grounded	Develop target route lookups, fetch top document matches, isolate text strings, and engineer strict grounding templates.	Complete the end-to-end containerized RAG application pipeline and run verified fact checks.

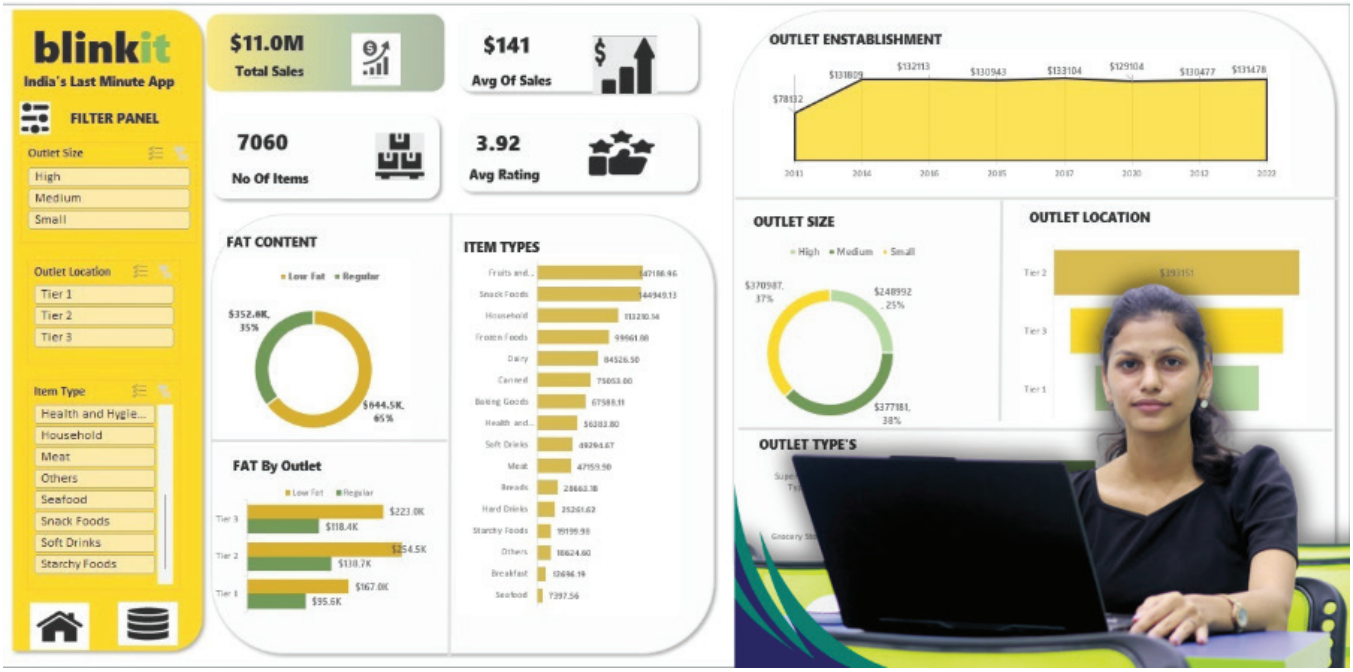
Our Alumni Work At

Infosys	TCS TATA CONSULTANCY SERVICES	wipro	accenture
Capgemini	IBM	HCL	Cognizant
NTT DATA	Deloitte.	pwc	BARCLAYS
citibank	HEXAWARE	Mindtree A Larsen & Toubro Group Company	L&T
CELEBAL TECHNOLOGIES	AUJAS CYBERSECURITY A NuSummit Company	CTDI	
AARAV SOLUTIONS	infiniminds	NIMAP INFOTECH FOCUS TO REDEFINE	WERQ LABS
HITACHI	airtel	ICICI Bank	DELL
LNV TECH Member of Sinoma	CYIENT	PEGA	verizon
synchrony	Honeywell	KARVY STOCK BROKING	and more...

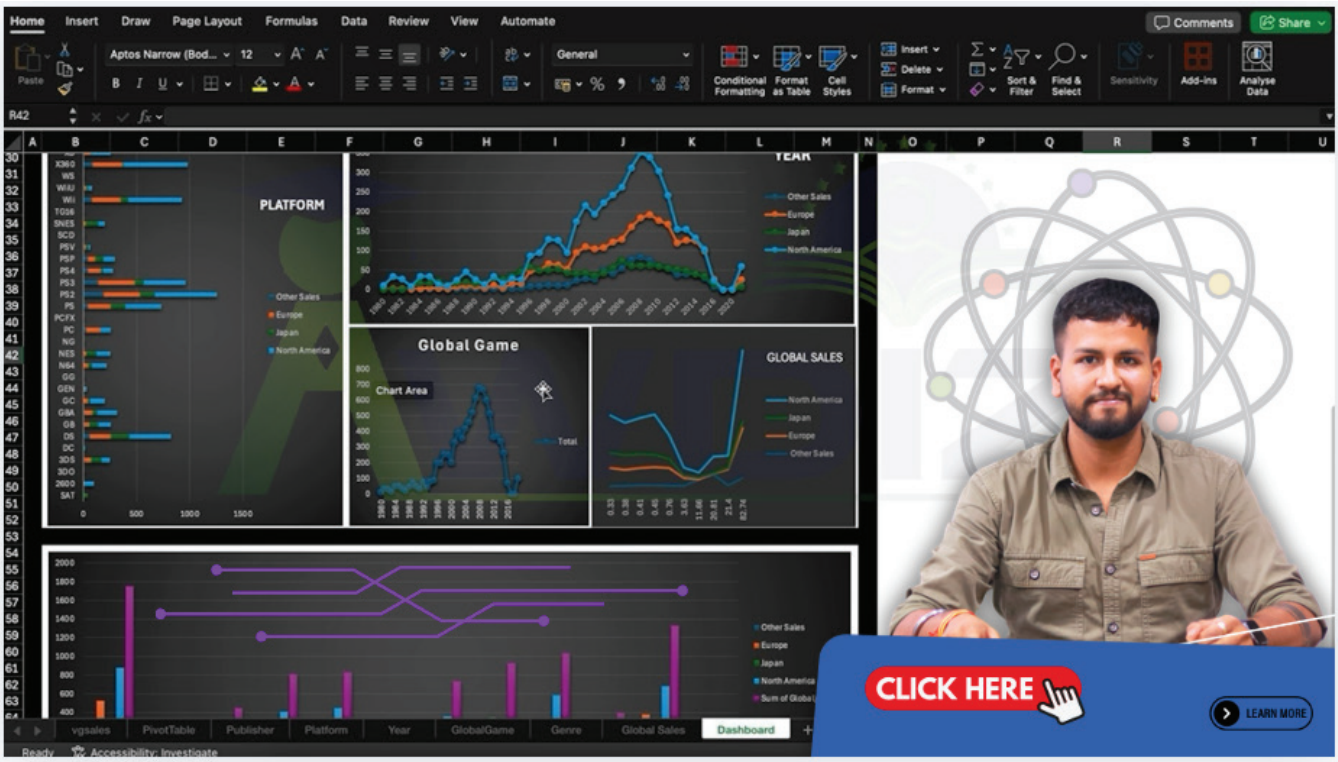
Projects Built by **Our Students**

See how Awdiz students transform classroom learning into portfolio-ready projects using real datasets, industry-standard tools, and practical business problem-solving.

Gulab Gore

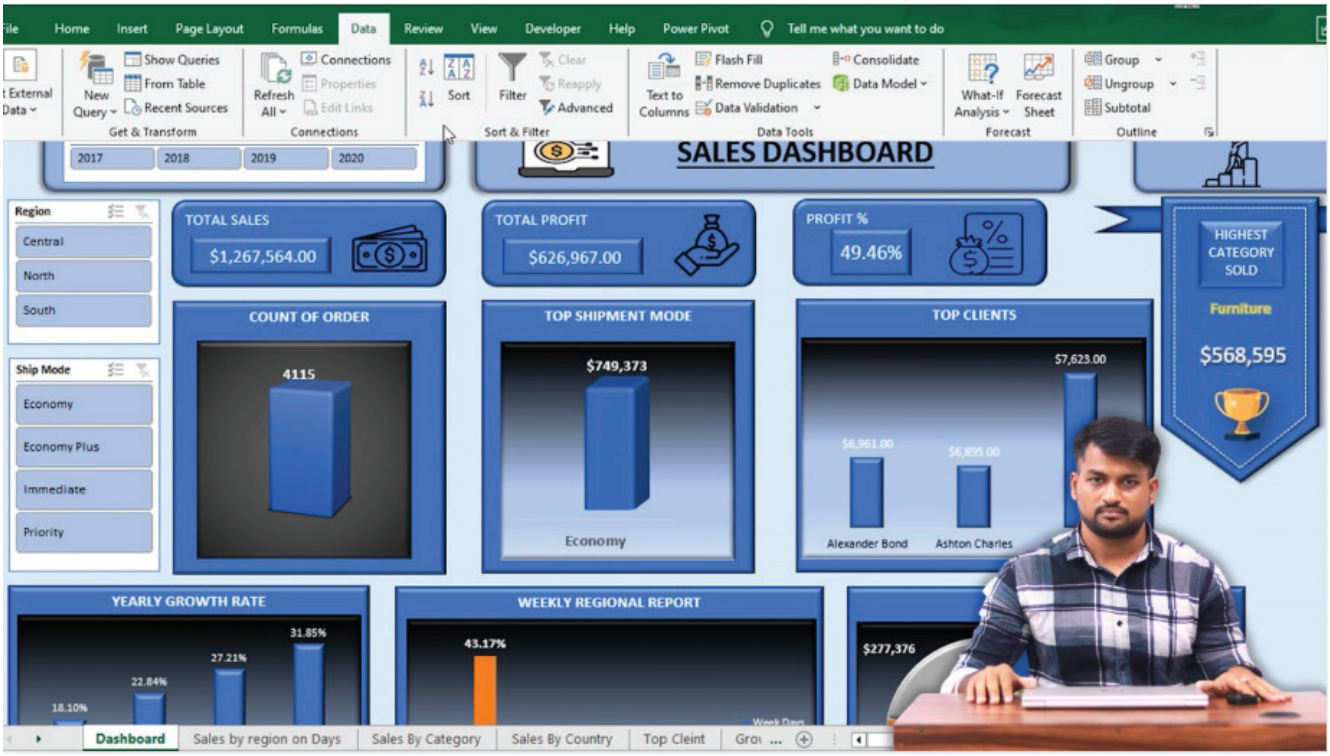


Amit Vishwakarma



Projects Built by **Our Students**

Rohit Shinde



Pournima More



Product Name	Stock Status	Supplier Name	Current Stock	Reorder Level
Bread O	✓	Supplier_C	80	25
Chair C	✓	Supplier_A	50	20
Desk F	!	Supplier_C	14	12
Dress K	✗	Supplier_B	5	12
Headphones B	✓	Supplier_C	60	25
Jacket J	✓	Supplier_A	25	15
Laptop Z	✗	Supplier_B	12	15
Milk N	✓	Supplier_B	60	25
Phone X	✓	Supplier_A	45	20
Rice M	✓	Supplier_A	100	30
Shelf G	✓	Supplier_D	35	18
Shirt H	✓	Supplier_C	40	20
Shoes L	✗	Supplier_D	10	15
Sofa E	✗	Supplier_B	8	10
Sugar Q	✓	Supplier_D	90	30
Tablet A	✓	Supplier_D	18	12

Projects Built by **Our Students**

Sonal Gavali



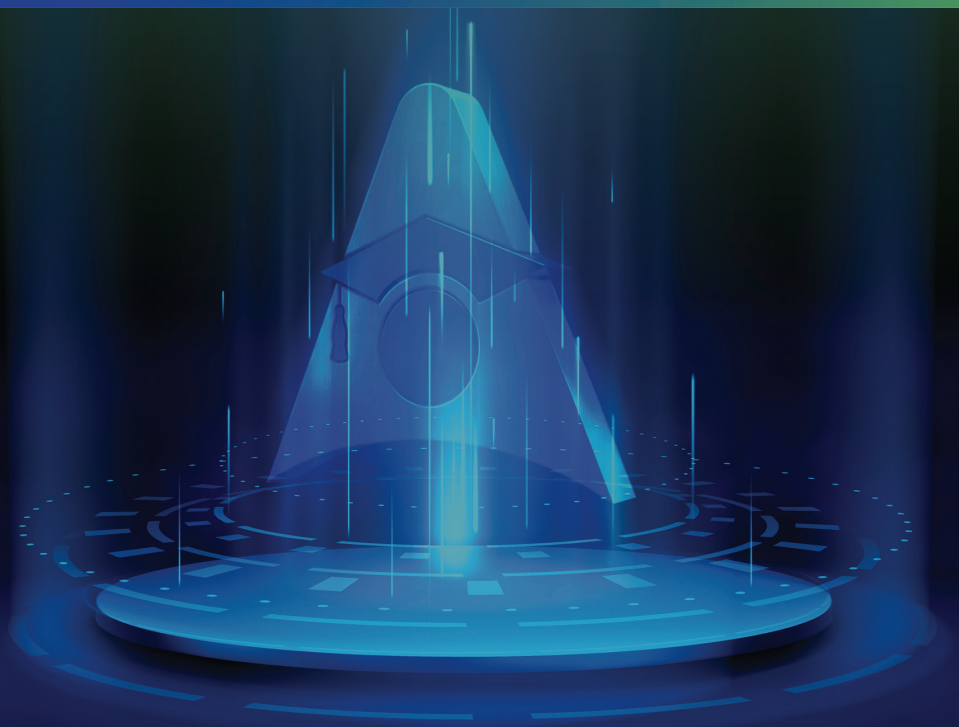
Pournima More



A Certificate That Speaks Before You Do.

Highlight your practical skills with a credential that adds value to your resume and job applications.





Our
Success Stories

Sophia Princy



*After completing my BSc IT from Vivek College of Commerce, Mumbai, I joined Awdiz Institute to build practical skills and prepare for a successful IT career. The hands-on training, lab practice, and interview preparation sessions helped me gain confidence as a fresher entering the industry. The trainers and placement team were very supportive throughout the journey, and within 3 months of completing the course, I got placed at TeamLease with a package of **4.1 LPA.***

Placed At	CTC
TeamLease® Putting India to Work	₹ 4.1 LPA

Nabeel Shaikh



*After completing my B.V.Tech from Pillai HOC College of Engineering, I joined Awdiz Institute to start my career in IT with practical knowledge and industry exposure. The training included hands-on projects, live scenarios, and interview-focused preparation, which helped me improve my technical skills and confidence. With continuous support from the faculty and placement team, I got placed at Impact Infotech with a package of **3.72 LPA** within 5 months of completing the course.*

Placed At	CTC
IMPACT Think • Act Smart •	₹ 3.72 LPA

Ashwini Kadam



*After completing my engineering, I was looking for the right course to become industry-ready. That's when I joined Awdiz Institute. The training was highly practical, and the mentors provided constant guidance that helped me build confidence and strong technical skills. I got placed at Dixit Infotech with a salary package of **3 LPA.** I'm grateful for the opportunity and would recommend Awdiz Institute to anyone who wants to upgrade their skills and start a career in IT.*

Placed At	CTC
dixit THE X FACTOR IN YOUR IT	₹ 3.0 LPA

Awards & Recognition

Recognised as Best IT Training & Placement Institute

by Education Supply & Franchise Expo (ESFE) 2026

Recognised for Excellence in Training & Career Outcomes

(2024–2025)

India's Best IT Training Institute for Job Guaranteed Courses

By Bharat Pratibha Samman Award

Asia's Leading IT Training Institute with Guaranteed Placement

By Asia Education Conclave – 2025

Best Job Guaranteed IT Training Institute

By Maharashtra Udhyog Gaurav Puraskar

Most Trusted IT Training Institute in Mumbai

By National Fame Awards (NFA) – 2024












Your Data Science Journey Starts Here

Data Science is not a short-term trend.
It is a long-term career for professionals trained the right way.

At **Awdiz Institute,** learners are guided with clarity, mentored with intent, and supported until placement.

AWDIZ INSTITUTE

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Training se Placement tak ki Guarantee

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