



**SDBI** | School of  
Data Science &  
Business Intelligence

THINK  
**FUTURE**  
THINK  
**DATA SCIENCE**

# Masters in Data Science & Big Data Analytics

Accredited by University of Mumbai.



Patkar Varde College, accredited (A+) by NAAC

# Data Science

Large amounts of data is generated by, and available to business and organisations. The ability to understand data, process it, extract value from it, to visualise it, to communicate it sums up the role of a data scientist in the simplest of terms.

Data Science is a multi-disciplinary field that uses statistical methods, scientific processes, algorithms and systems to extract knowledge & insights from structured and unstructured data.

# Business Analytics

Business analytics are the people that have the needed knowledge, skills, and sources of information to decide on the direction the business needs to take to succeed in the future.

Graduates in Business Analytics work at large companies, start their own businesses, work in banks or FinTech, web-based business, retail and food companies, media companies, and marketing companies

India's data science market is expected to achieve compound annual growth rate (CAGR) from 2020 to 2025.

**30%**

Analytics India Magazine

India is projected to have job openings for data scientists and analysts by 2026

**1.5laks**

Economic Times

Global big data and business analytics market is forecasted to reach

**\$274.3** billion by 2025

Statista

In the US, data science is the second fastest-growing job with a yearly growth rate of

**31%**

Deloitte's survey indicates that 70% of companies intend to boost their investment in data analytics in the coming year.

**70%**

World Economic Forum (WEF) predicts that the world's most in-demand skills by 2022 will be data analysis and artificial intelligence (AI).

**2022**

One of the indicators that data science careers are well-suited for the future is the dramatic increase in data science job posts. Statistics from Indeed.com show a steady increase in the number of data science jobs listed over the years.

More specifically, there has been a 256 percent increase in them since 2013 which suggest companies recognize the worth of data scientists and want to add them to their teams.

## Eight Ways Data Science Add Value to Any Business



# About SDBI

SDBI is premium education institution offering new-age practical learning courses in Data Science

We exist with an aim to provide the students with felicitous skills required to excel in the industry, acting as a bridge between industry requirements/demands and supply, we make our students future ready with power packed amalgamation of practical and academic expertise in this field..

All the programs are specifically designed and taught by the experts of the industry to bring a sync between education and the workplace realities

## Courses Offered

Courses are open for students from all stream

- B.Sc. in Data Science and Business Analytics
- M.Sc. in Data Science and Big Data Analytics
- PG Diploma in Data Science and Business Analytics

## Key Highlights

Registration fees - 30,000



### Faculty:

- industry Experts and Academicians
- 20+ Years of Cumulative



### Practical Learning:

- Capstone Projects, Job-Oriented Training, Industry Connect, Mandatory Internship



### Learning Management System:

- Revisit, Rethink and Revise lectures anywhere, anytime



### Placement Cell:

- Guidance for future career
- Resume Building
- 100% Job Placement Assistance



### Global Reach:

- International tie-ups and internship opportunities



### Job-Ready:

- Platform enabling students to take lucrative career paths

“INFORMATION IS THE OIL OF 21ST CENTURY  
AND ANALYTICS IS THE COMBUSTION ENGINE”

-Peter Sondergaard

## Faculty In SDBI



### Bhavya Manojkumar Goradia

Experienced Data Scientist and Visiting Faculty with a 4+ year track record in Data Science and Analytics. Collaborated with top companies such as FedEx, Ulysses Systems, STP Consulting, Kotak Mahindra Bank, and eClerx Services.



### Priya Pednekar

Experienced faculty member with 15 years of teaching at undergraduate, graduate, and postgraduate levels. Expertise in Database, SQL, Data Mining, Operating Systems, IoT, Information Governance, and Computer Networks.



### Awesh Bhornya

Academician and Corporate Trainer specialized in Database and Data Visualization tools such as Excel, SQL, Power BI, and Tableau. Expertise in Online Education, Digital Marketing, Data Analytics, Statistics, Data Visualization, Data Modeling, and Data-Based Dashboards.



# M.Sc. in Data Science & Big Data Analytics

## Course Eligibility

Graduate (From any stream)

### • Semester 1

1. Statistical Methods
2. Database Management System
3. Big Data Architecture and Ecosystem
4. Python Programming
5. Data Visualization - Using Power BI
6. R Programming

### • Semester 2

1. Modelling Techniques
2. Machine Learning
3. Distributed Processing using HADOOP
4. Advance SQL
5. Project Work
6. Business Communication

## Mandatory Internship

### • Semester 3

1. Time Series Analysis and Forecasting
2. Next Generation Database
3. Web and Social Intelligence
4. Latest Trends in Technology
5. Data Mining and Warehousing
6. Natural Language Processing

### • Semester 4

1. Programming in Scala and Spark
2. Principles of Deep Learning
3. Cloud Computing
4. Information Governance and Data Analysis
5. Internship
6. Electives

## Project of curriculum

### Project work – Electives

Financial Analysis | Marketing Analysis

- Predictive modeling for privacy risk assessment: Build a predictive model that uses various data sources to estimate the risk of privacy breaches.
- Predictive modeling: Building predictive models for real-world problems such as stock price prediction, housing price prediction, or customer churn prediction.
- Data visualization: Creating visualizations to help analyze and understand complex data sets.
- Machine learning: Applying machine learning algorithms such as decision trees, neural networks, or k-means clustering to solve real-world problems.
- Natural Language Processing (NLP): Building NLP models for tasks such as sentiment analysis, topic modeling, or text classification.
- Fraud detection: Developing models to detect fraud in financial transactions or other areas.
- Time series analysis: Analyzing time series data such as stock prices, weather patterns, or sales trends to make predictions or understand patterns.

## Industry Internships

- Technology: software development, data science, artificial intelligence, and cloud computing & machine learning
- Finance: investment banking, risk management, and financial analysis.
- Healthcare: medical research, clinical trials, and health informatics
- Marketing: digital marketing, market research, and advertising.
- Retail: management, e-commerce, and sales



## 1. What career opportunities does the M.Sc. in Data Science and Big Data Analytics program open up to?



## 2. What is the eligibility criteria for admission in MSc program?

### ● PRE Admissions

- 40% of the seats filled during pre admissions by clearing the Entrance Exam QAT before 31st April 2023
- Admissions 2023 - Remaining seats are filled based on graduation score and/or QAT after graduation results are out

**Students of Commerce/Science stream (with math subject) and scored more than 60% in graduation can apply for Direct Admission**

### ● Eligibility Criteria For Science (with math) Background Students

- Above 60% in graduation - Eligible for Direct Admission
- Below 60% in graduation - Apply for QAT

### ● Eligibility Criteria for Non-Science ( Commerce ) background Students.

Students with different educational backgrounds should apply for QAT Test.  
Candidate must score 50% in the QAT Exam to get admission

### ● What is QAT?

QAT ( Quantitative Aptitude Test ).

This is an MCQ based test.

Every Saturday from 2:00 p.m. to 4:00 p.m QAT test is conducted.

Total marks - 100

Syllabus -

Math and Statistics (70%) and Verbal/English Ability (30% )

Passing Marks:- 50 %

Incorrect Answer :- 25 % Negative marking

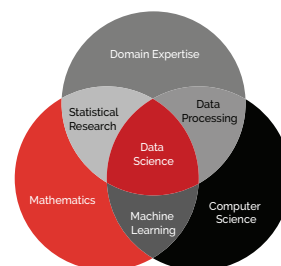
**Registration fees :- 1000rs**



For QAT

## 3. How does M.Sc. in Data Science & Big Data Analytics differ from Engineering & Computer Science Courses?

Data Science is an amalgamation of Mathematics, Computer Science & Domain Expertise. A combination of machine learning, statistical research & data processing is what makes a data scientist.



## 4. Fee Structure

M.Sc. in Data Science & Big Data Analytics

First Year- 3,50,058 | Second Year- 4,09,438

- Scholarship upto 30% on the fees is available based on academic credit OR Financial aid support
- Fees includes registration fee, tuition fee, library fee, exam fee, university charges, study material fee and industry training fee.
- Fees can be paid on monthly basis
- Education Loan Available :- HDFC, ICICI Bank & NKGsb Bank

**Pre- admission Registration fees :- 30,000**

## 5. How to enroll for a course at SDBI?

Follow these easy steps to enroll for a course at SDBI

- Head over to [sdbi.in](http://sdbi.in)
- Click on register button
- Register yourself using your email id
- Login using your registered email id
- Fill in all your details and upload marksheets/certificates
- Your application will now go under review by the admissions team
- Once approved, you can pay the registration fees(For M.Sc - INR 30,000) and secure a seat

# Our Students



**Megha Thirki**  
Company  
IIFL



**Alekhya Bhamidipati**  
Company  
Planet Marathi



**Anundya Ware**  
Company  
Alison



**Sanjana Choudhari**  
Company  
Dun&Bradstreet

# Advisory Board



**Sauvik Banerjee**

- Chief Executive officer at Resolve Limited
- TedX Speaker, MIT Starter Hub Mentor
- Ranked on of the top 6 technologists globally



**Abhinav Bhasin**

- Vice President at Dentsu Aegis Network
- Featured in the 2019 Forbes 30 Under 30 list.
- TEDx talks on topics in advertising and the future of talent.



**Sunil Kharbanda**

- Co-Founder & CRO at TreZix Innovation
- 29 years of experience in building large business management portfolios.
- Board Advisor at Opkey

# Frequently Asked Questions (FAQs)

## 1) What is Data Science?

Data Science is an interdisciplinary field that involves the extraction, analysis, and interpretation of data to solve complex problems and make data-driven decisions.

## 2) What skills do I need to become a data scientist?

To become a data scientist, you need strong skills in mathematics, statistics, and programming, as well as the ability to work with large and complex data sets. You should also have excellent communication skills, as data scientists often need to present their findings to stakeholders who may not have a technical background.

## 3) What programming languages do I need to know for data science?

Some of the most commonly used programming languages for data science include Python, R, and SQL. You may also want to learn programming languages such as Java, and MATLAB, depending on your specific needs and the type of work you plan to do in data science.

## 4) What should I expect from the MSc in Data Science and Big Data Analytics program?

As a part of our MSc in Data Science and Big Data Analytics curriculum, you can expect the following –

1. 2 years – full-time course.
2. Mandatory Internships.
3. Placement Assistance.
4. Mentorship of top Data Talent.
5. Capstone projects and Case Studies.

Patkar Varde Collage,  
Piramal Nagar, Goregaon West,  
Mumbai, Maharastra 400062.



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+91 99200 53700 / +91 93727 77617

info@sdbi.in



www.sdbi.in