



CERTIFICATION PROGRAM IN DATA SCIENCE

**BY DR. D. Y. PATIL INSTITUTE OF MANAGEMENT
STUDIES (DYPIMS)**

**IN COLLABORATION WITH
INSTITUTE FOR ADVANCED COMPUTING AND
SOFTWARE DEVELOPMENT (IACSD)**





Overview

Dr. D. Y. Patil Pratishthan is a charitable trust engaged in education for the last 40 years. It has excellent educational complexes in Mumbai, Pune and Kolhapur, imparting quality education from kindergarten to post graduation. More than 100,000 students are undergoing education in different disciplines backed by around 5,000 well-qualified staff.

About DYPIMS

Dr. D. Y. Patil Institute of Management Studies

is one of the illustrious galaxies of educational endeavours of Dr. D. Y. Patil Pratishthan and is amongst the premier Management Institutes. The Institute is housed in a spacious and plush building located at Akurdi, a suburb of the mega industrial township of Pimpri-Chinchwad. DYPIMS is affiliated to Savitribai Phule Pune University, approved by AICTE, and recognized by the Government of Maharashtra. It offers full-time MBA program of 2 years. MBA program of DYPIMS was accredited by National Board of Accreditation, New Delhi (NBA) for the period 2012 to 2015.

The Institute was also accredited by National Assessment and Accreditation Council (NAAC) with 'A' grade from 2015 to 2020.

About IACSD

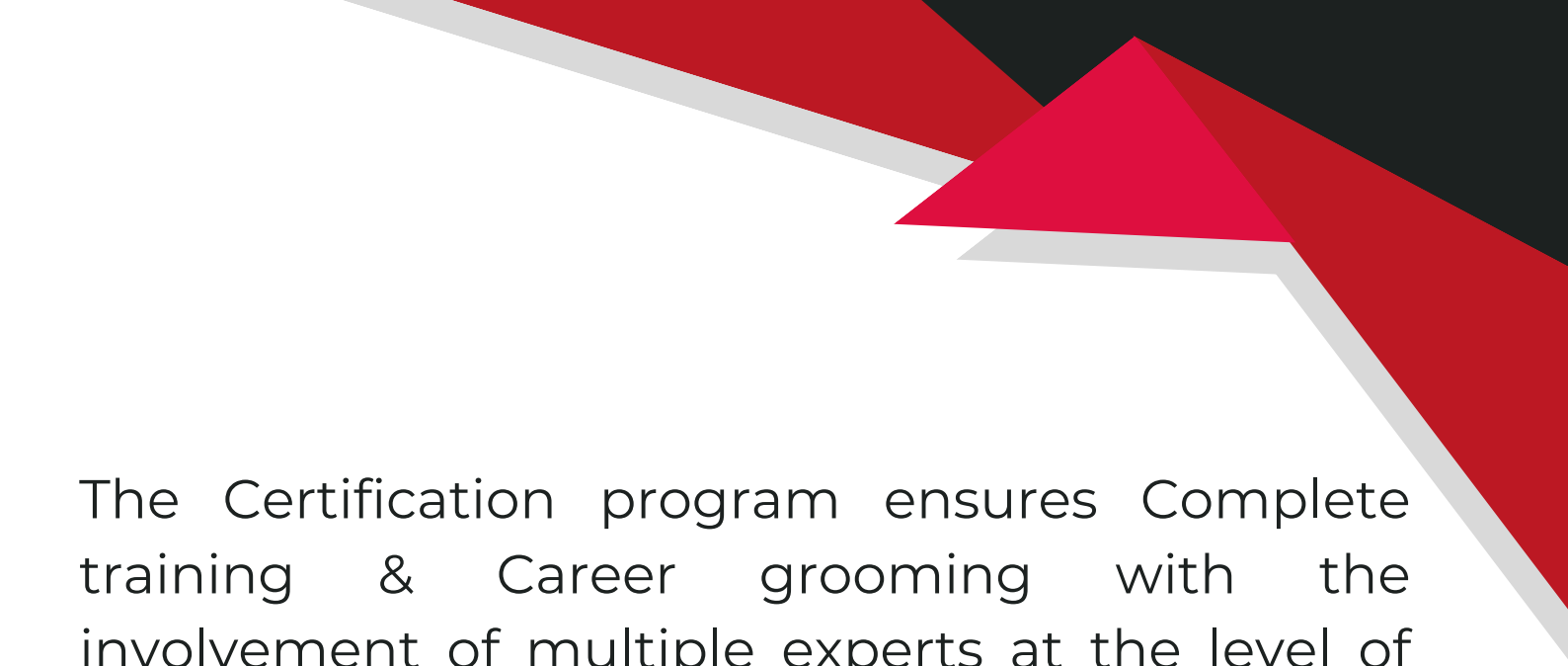
IACSD Akurdi, Pune is an Authorized Training Centre of Centre for Development of Advanced Computing Advanced Computing Training School (C-DAC ACTS) Pune. C-DAC is a premier R&D organization of Ministry of Electronics and Information Technology (MeitY).

Advanced Computing Training School (ACTS) is the training division of C-DAC, offering a wide range of PG Diploma courses and certification programs to empower individuals with skills in emerging technologies and promotes a culture of continuous learning.

IACSD offers PG Diploma courses of C-DAC ACTS such as Post Graduate Diploma in Advanced Computing (PG-DAC), Post Graduate Diploma in Big Data Analytics (PG-DBDA) & Post Graduate Diploma in IT Infrastructure, Systems & Security (PG-DITISS). The Institute also conducts PreCAT, a preparatory course for students aspiring to become software professionals. IACSD is one of the top-ranked C-DAC institutes offering PG Diploma Courses and Corporate Training in the domains of Application Development, Data Analytics, Data Science, Networking, and System Security.

About the Certification Program


The certification program will empower aspirants who would like to pursue their career as Data Analyst, Data Engineer, BI Engineer, Cloud Engineer, Researcher or Business Analyst and Data Visualization specialists. The program has been designed to enhance the theoretical and conceptual knowledge and also the analytical aptitude for those who are inclined to make their career in Data Analytics, Data Science and Data Visualization in different business sectors. Participants will learn how to read, manipulate, and analyze data, as well as how to visualize their findings using various charts and graphs. By the end of the program, participants will have a strong foundation in Python Programming, Data Visualization and Data Analytics, enabling them to apply their new found knowledge to real-world problems.



The Certification program ensures Complete training & Career grooming with the involvement of multiple experts at the level of mutual research interests and customer related projects which will ensure a good career road map. Post completion of the course students will be able to perform critical tasks in the field of Data Science, Data Analytics, Big Data, Python programming and creating dashboards.

The program will also ensure exposure to Machine Learning and applications in Artificial Intelligence using tools and case studies.

The course will also provide an understanding of key concepts in Cloud, R programming, and Big Data, enabling participants to become full-time data analysts or data engineers.



Learning Objectives

The broad objectives will be mainly to explore the power of data and data analysis to develop better understanding by the participants. Learn about business intelligence, data-driven decision-making, data collection methods, discovery, and interpretation, as well as how to structure, assess, and transform data using core functions in Excel and Power BI/Tableau. Discover how data scientists use programming languages such as R, Python and SQL. Assess the role of mathematics, such as Algebra in Data Science.

Assess the role of applied statistics, such as confidence intervals in data science. Assess the role of machine learning, such as artificial neural networks, in data science. Gather insights from Experts on modelling, visualization, and mapping out in the job market as an early-career analyst. Assess the importance of cloud in the field of data storage.

Who Should Join?

The program is very suitable for Postgraduate (MBA) who are specializing in Business Analytics/IT Graduates and who would like to pursue their career in Data Science domain. Ideal for Engineers, Graduates, Professionals, Faculty and Students who want to pursue their career in Data Analysis, Business Intelligence, Business Analytics, Data Visualization, Data Engineering, Cloud engineering, Data Science and AI.

Program Structure

- **Live Classes:** Expert-led sessions every weekend
- **Recorded Lectures:** Learn flexibly with recordings
- **Project Support:** Live Project (Mentor Mind)
- **Hybrid Sessions(Optional):** Offline practice workshop
- **Assignments & Tests:** Regular assessments for progress tracking

Modules of Data Science Program

Module 1 : Excel and Advance Excel (18 Hours)

Module 2 : Statistics Essential and Advance Analytics using R (40 Hours)

Module 3 : Database Technologies (50 Hours)

Module 4 : Cloud Computing (20 Hours)

Module 5 : Core and Advanced Python (70 Hours)

Module 6 : Machine Learning (15 Hours)

Module 7 : Deep Learning (12 Hours)

Module 8 : Natural Language Processing (12 Hours)

Module 9 : Big Data (12 Hours)

Capstone Project (4-6 weeks)

Module 10 : Visualization using Power BI (18 Hours)

Module 11 : Visualization using Tableau (18 Hours)

Module 12 : Web Scrapping (10 Hours)

Module 13 : Quantitative Aptitude (20 Hours)

Module 14 : Communicative English and Preparation for Interviews (15 Hours)

Tools Covered in the Course

Python  MySQL 

ChatGPT  R 

Tableau  Azure

Power BI  Ms Excel 

Program Highlights

- 14 Modules & Assignments
- Industry Projects
- Placement Support
- Hybrid Learning Option
- Practice Sessions
- Comprehensive Study Materials
- Session Recordings




Course Delivery

The course will be delivered in hybrid mode. All the sessions will be conducted virtually on Zoom platform. After each module, a revision session will be arranged in physical mode. Regular expert sessions will also be arranged for the students on related topics.

Evaluation

The program will be having regular assignments and class tests with quiz to monitor the progress. At the end of the course, participants will have to clear the final evaluation exam.



Course & Payment Details

- Start Date: 27th July 2024
- End Date: 23rd Feb 2025
- Duration: 6 Months (330 hours)
- Class Days: Saturday & Sunday
- Session Time: 10:00 AM to 01:00 PM & 02:00 PM to 05:00 PM
- Fee: Rs. 41,300 (35,000 + 18% GST)
- Mode: Online (Zoom Platform)

Fees Concession / Discounts

Group Discount of 20% (Min 4 students)

Mode of Payment

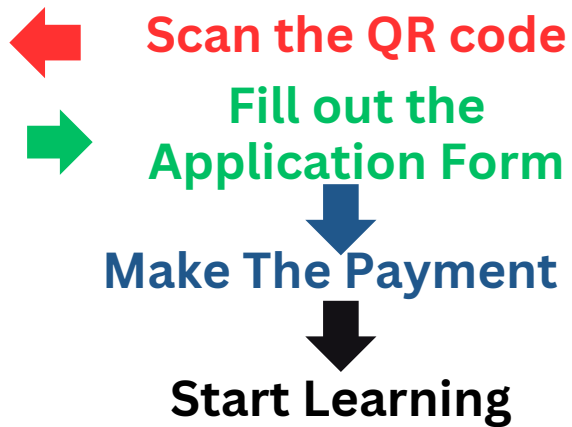
BANK NAME:- HDFC BANK

A/C NO :- 50100136437400

IFSC CODE:- HDFC0000007

ACCOUNT NAME:- DR D Y PATIL EDUCATION
AND RESEARCH FOUNDATION

How to Enroll



Trainers



Dr. Lalit Prasad

Module: Business Analytics and Data Science

Exp : 18+ Yrs
Organization : DYPIMS



Dr. Shantanu S Pathak

Module: Python, AI/ML & R

Exp : 18+ Yrs
Organization : IACSD



Dr. Priyanka Mishra

Module: Business Analytics

Exp : 17+ Yrs
Analytics Expert



Mr. Manav Bharatiya

Module: Data Science | ML

Exp : 07+ Yrs
Freelance Corporate Trainer



Mr. Amit Rohra

Module: Aptitude & Reasoning

Exp : 15+ Yrs
Corporate Training



Mr. Narendra Pawar
Module: Database Technologies
Exp : 20+ Yrs
Organization : IACSD



Mr. Somnath Hadalgekar
Module: Advance Excel
Exp : 10+ Yrs
Organization : DYPIMS



Mr. Mukund Mishra
Industry Expert: Cloud / Big Data / GenAI
Exp : 22+ Yrs
Gen AI Expert



Mrs. Priti Take
Module: Tableau
Exp : 05+ Yrs
Organization : IACSD



Mr. Santanu Chatterjee
Module: Data Science/AI
Exp : 20+ Yrs
Corporate Trainer



Mrs. Mallika Iyer
Module: Communication Specialist
Exp : 20+ Yrs
Corporate Trainer

Hiring Partners



Myntra

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Career Domains

1. **Finance and Banking:** Use of data science for fraud detection, risk assessment, algorithmic trading, and customer analytics.
 2. **Healthcare:** Applications include personalized medicine, patient outcome prediction, drug discovery, and healthcare management optimization.
 3. **Retail and E-commerce:** Utilization of data science for customer segmentation, recommendation systems, demand forecasting, and supply chain optimization.
 4. **Telecommunications:** Data science is applied for network optimization, customer churn prediction, and improving service quality.
 5. **Marketing and Advertising:** Targeting through data-driven insights, customer behavior analysis, campaign optimization, and social media analytics.
 6. **Manufacturing and Logistics:** Data science aids in predictive maintenance, quality control, inventory optimization, and logistics management.
 7. **Government and Public Sector:** Applications include policy planning, fraud detection, public health analytics, and urban planning.
 8. **Energy and Utilities:** Use of data science for predictive maintenance of infrastructure, energy demand forecasting, and resource optimization.
 9. **Education:** Data science is used for personalized learning paths, student performance prediction, and educational resource optimization.
 10. **Transportation:** Applications include route optimization, predictive maintenance for vehicles, and improving efficiency in logistics.
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Market Size of Data Science



The data science market size represents the total amount of all sales and customers that can be observed directly by stakeholders. This figure is typically calculated at the end of the year. Companies use the market size to assess the potential of their market and business in the future.

TAM

\$ 140 Billion

Total Available
Market

SAM

\$ 40 Million

Serviceable Available
Market

SOM

\$ 10 Million

Serviceable
Obtainable Market



Chief Facilitators

Dr. Bharat Chavan Patil
Chief Patron
Executive Director, DYPIMS

Mrs. Shweta Chavan Patil
Patron
Managing Director(QA)

Mrs. Supriya P. Patil
Patron
Trustee, DYPERF

Dr. Kuldip Charak
Chairman
Director, DYPIMS

Mr. Keshav Kumar
Program Manager
Assistant Professor, DYPIMS

CONTACT US



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