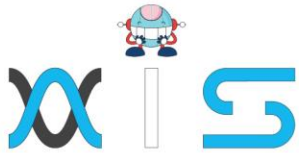


Professional Certificate Program in Data Science

University Program

Course Outline





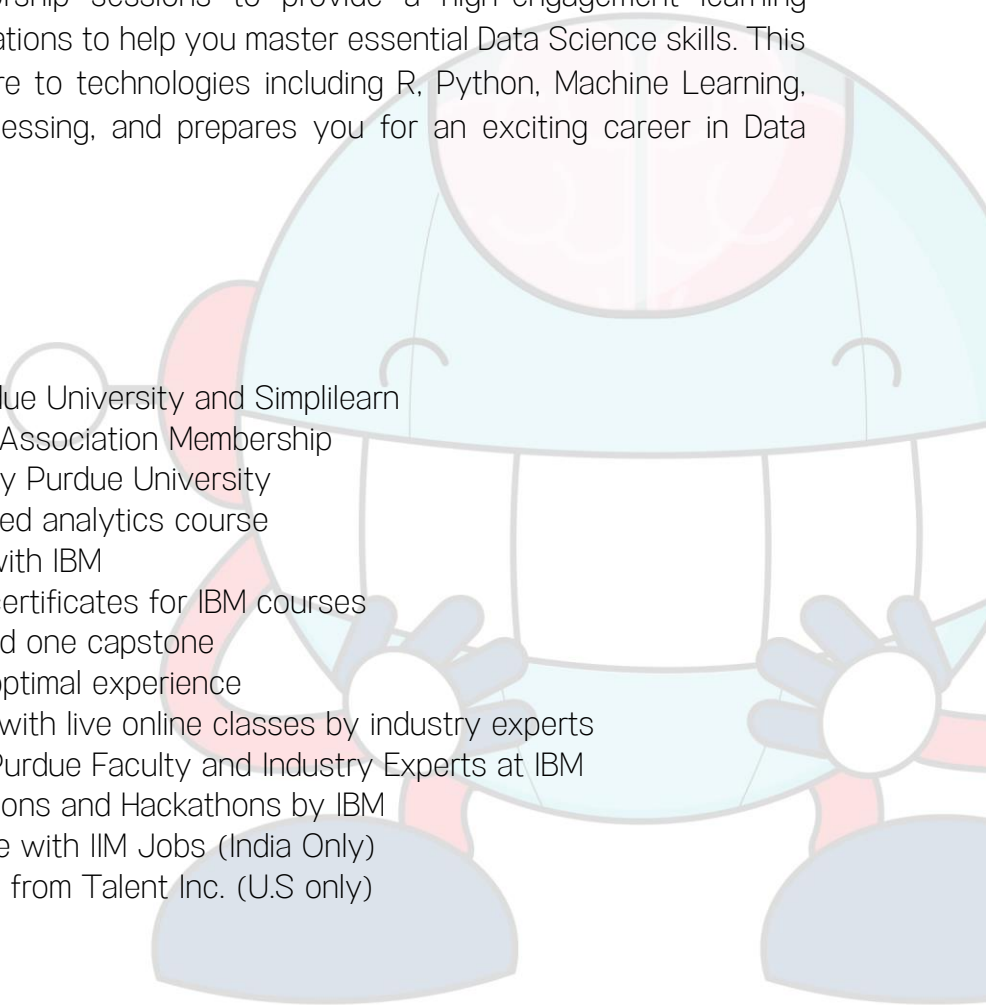
Course Overview:

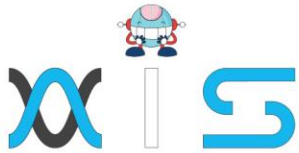
Accelerate your career with this acclaimed Professional Certificate Program in Data Science, in collaboration with Purdue University and in collaboration with IBM, and featuring the perfect mix of theory, case studies and extensive hands-on practicum. In partnership with Purdue University, this program is a comprehensive Data Science education – leveraging Purdue's academic excellence in Data Science and Simplilearn's partnership with IBM.

Designed to give recent graduates and experienced professionals an extensive Data Science education, this Program is a blend of online self-paced videos, live virtual classes, hands-on projects, and labs, with mentorship sessions to provide a high-engagement learning experience and real-world applications to help you master essential Data Science skills. This program offers in-depth exposure to technologies including R, Python, Machine Learning, Tableau, Natural Language Processing, and prepares you for an exciting career in Data Science.

Key Features:

- Joint certificate from Purdue University and Simplilearn
- Eligible for Purdue Alumni Association Membership
- International recognition by Purdue University
- Leading industry-recognized analytics course
- Program in collaboration with IBM
- Industry-recognized IBM certificates for IBM courses
- 25+ hands-on projects and one capstone
- Limited class size for an optimal experience
- 8X higher live interaction with live online classes by industry experts
- Masterclasses from Top Purdue Faculty and Industry Experts at IBM
- Exclusive Mentoring Sessions and Hackathons by IBM
- Simplilearn Job Assistance with IIM Jobs (India Only)
- Simplilearn Career Service from Talent Inc. (U.S only)





About the Professional Certificate Program in Data Science in partnership with Purdue University

Purdue University, a top public research institution, offers higher education at its highest proven value. Committed to affordability, the University has frozen tuition and most fees at 2012-13 levels. Committed to student success, Purdue is changing the student experience with a greater focus on faculty-student interaction and creative use of technology. Committed to pursuing scientific discoveries and engineered solutions, Purdue has streamlined pathways for faculty and student innovators who have a vision for moving the world forward.

This Professional Certificate Program in Data Science in partnership with Purdue University will open pathways for your career in virtually every realm of business—from healthcare to education to manufacturing.

Upon successfully completing this program, you will:

- Receive a joint Simplilearn and Purdue certificate of completion
- Be eligible able to join the Purdue alumni association and participate in its various networking opportunities and career events

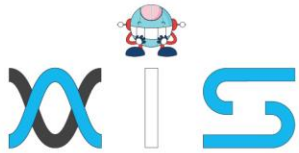
Program Eligibility Criteria and Application Process:

Those wishing to enroll in the Professional Certificate Program in Data Science in collaboration with Purdue University will be required to apply for admission to the program.

Eligibility Criteria

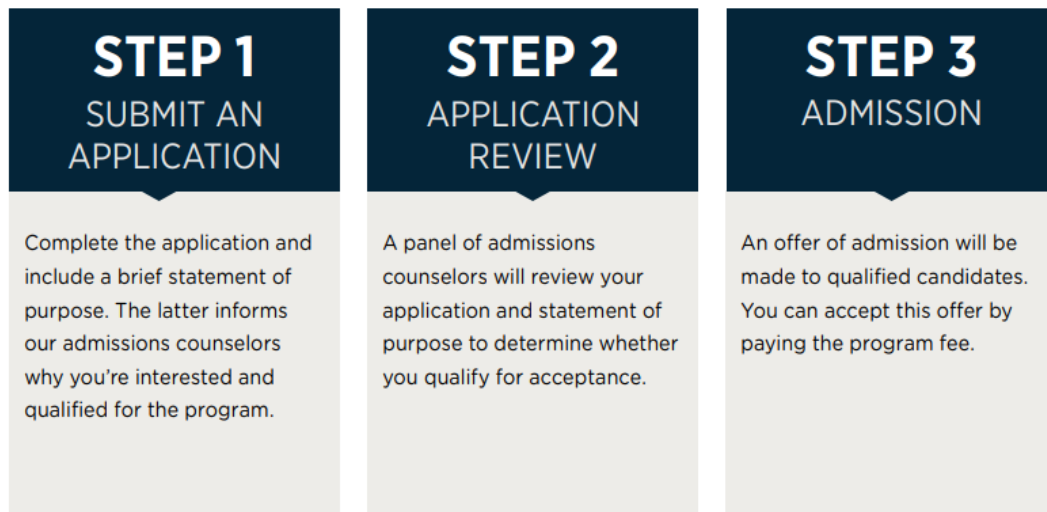
For admission to this Data Science Professional Certificate Program, candidates should have:

- A bachelor's degree with an average of 50% or higher marks
- Basic understanding of programming concepts and mathematics
- Working Professionals with 2+ years of experience are preferred to apply for this program



Application Process

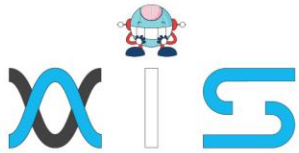
The application process consists of three simple steps. An offer of admission will be made to the selected candidates and accepted by the candidates by paying the admission fee.



Talk to an Admissions Counselor

We have a team of dedicated admissions counselors who are here to help guide you in applying to the program. They are available to:

- Address questions related to the application
- Assist with financial aid (if required)
- Help you resolve your questions and understand the program

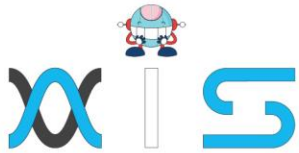


Program Outcomes:

- Gain an in-depth understanding of data structure and data manipulation
- Understand and use linear and non-linear regression models and classification techniques for data analysis
- Obtain a comprehensive knowledge of supervised and unsupervised learning models such as linear regression, logistic regression, clustering, dimensionality reduction, K-NN and pipeline
- Perform scientific and technical computing using the SciPy package and its sub-packages such as Integrate, Optimize, Statistics, IO, and Weave
- Gain expertise in mathematical computing using the NumPy and Scikit-Learn package
- Master the concepts recommendation engine, time series modeling, gain practical mastery over principles, algorithms, and applications of Machine Learning
- Learn to analyze data using Tableau and become proficient in building interactive dashboards
- Understand deep reinforcement learning techniques applied in Natural Language Processing
- Understand the different components of the Hadoop ecosystem and learn to work with HBase, its architecture and data storage, learning the difference between HBase and RDBMS, and use Hive and Impala for partitioning
- Understand MapReduce and its characteristics, plus learn how to ingest data using Sqoop and Flume

Who should enroll in this program?

This program caters to working professionals from a variety of industries and backgrounds; the diversity of our students adds richness to class discussions and interactions. The Data Science role requires an amalgam of experience, Data Science knowledge, and using the correct tools and technologies. It is a solid career choice for both new and experienced professionals. Aspiring professionals of any educational background with an analytical frame of mind are most suited to pursue this Professional Certificate Program in Data Science, including:



- IT professionals
- Analytics managers
- Business analysts
- Software developers
- Beginners or recent graduates with bachelor's or master's degree

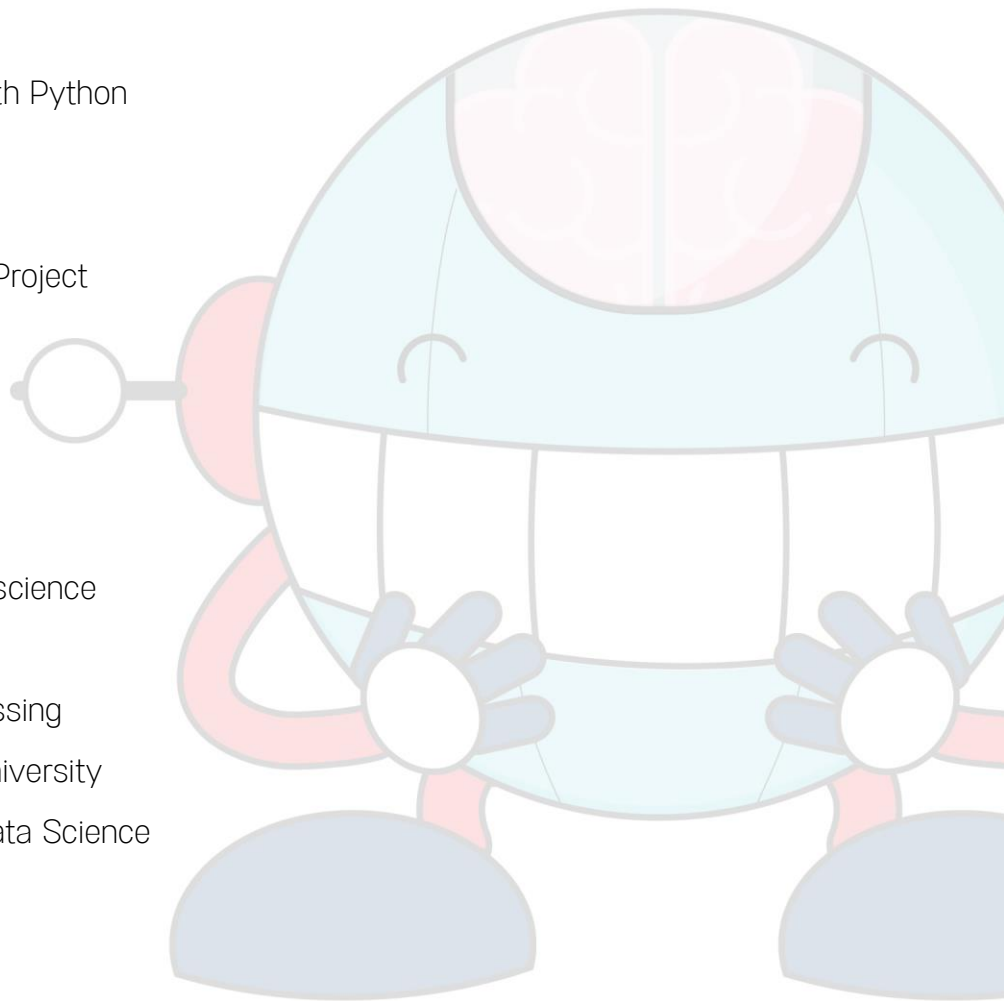
Learning Path:

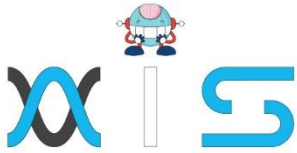
1. Python for Data Science
2. Applied Data Science with Python
3. Machine Learning
4. Tableau Training
5. Data Science Capstone Project

(★) Master's Certificate

Electives:

- R programming for data science
- Data Science with R
- Natural Language Processing
- Masterclass - Purdue University
- Industry Masterclass- Data Science





AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

Learning Partners



SAS Management, Inc.

SAS Management, Inc. has been a leader in the training, certification and consulting services industry in the Philippines. With offices in Makati, Ortigas and Cebu, Philippines, the company has been the top training and consulting company for over 9 years. In its years of existence, it has provided certificates to over 100,000 professionals including 10,000 participants in the 160+ courses that have been conducted just during the 2020-2021 pandemic alone. The most sought-after courses being offered are ITIL, Project Management Professional (PMP)®, COBIT 5, Six Sigma Yellow Belt, Six Sigma Green Belt, PRINCE2, and organizational skills, among others.



Simplilearn

Simplilearn, based in California and India, is the world's #1 online bootcamp and one of the world's the leading certification and training providers. Simplilearn trained over 2,000,000 professionals with 2,000+ trainers and provides over 400 different courses.

Technology Partner



Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

Partners & Affiliates



PECB

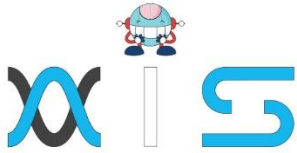
SDI Service Desk Institute

EC-COUNCIL

MIT Massachusetts Institute of Technology



P PURDUE UNIVERSITY



The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.

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