

A Program by:



In Collaboration with:



ABOUT THE PROGRAM

Hundreds of online courses exist today. What many of them lack, however, is a commitment to helping you translate your knowledge into something tangible - the ability to excel and grow as a Data Science professional. To tackle this, the PGP-DSBA has been designed to give you the academic rigor, learning support, and peer interaction of a full-time course with the flexibility of an online program. The PGP-DSBA enables you to master the basics of programming without any prior coding experience. It o ers a comprehensive curriculum with cutting-edge technologies like Python, Tableau, Logistic Regression, Decision Trees, Generative AI like ChatGPT and many more. A structured learning journey keeps you on track throughout as you achieve your weekly learning milestones with your mentor and benefit from their rich professional experience.

Following a learn-by-doing pedagogy, the program o ers you the opportunity to apply your skills and knowledge in real-time every week through interactive mentor-led practice sessions, quizzes, assignments, and hands-on projects. As you do so, you come to truly appreciate the nuances of data and build your portfolio in the process. On a whole, the program empowers you with the skills, body of work, and job market insights you need to find the right career opportunities in Data Science or lead Data Science e orts in your current organisation. All this comes with the credibility, global advantage, and academic leadership of McCombs School of Business at The University of Texas at Austin.



FORMAT

Online (Recorded Video Lectures + Interactive Mentored Learning)



LEARNING SUPPORT

Dedicated Program

Manager + Industry Mentor



TIME COMMITMENT

8-10 Hours per Week



DURATION

6 Months



PROJECTS

7+ Hands-on Projects



THE UT AUSTIN ADVANTAGE

Founded in 1883 and home to more than 51,000 students and 3,000 teaching faculty, The University of Texas at Austin is one of the leading public universities in the United States. The UT Austin name is globally recognized as a leader in the domains of science, business, technology, and social science. This is especially true for business analytics, where it is ranked at #3 in USA (QS World University Rankings 2022).



The university has also been consistently ranked among the top 20 public universities by U.S. News & World Report, with 15 undergraduate program and 40+ post-graduate programs ranked in the top 10 nationally. With a proven track record of successes, cutting-edge research and teaching methods, you can be confident that you are learning from the best of the best.

KEY FACTS

NUMBER OF DATA SCIENCE JOBS TO INCREASE BY ~28% THROUGH 2026.

The U.S. Bureau of Labor Statistics

3 MILLION JOB OPENINGS IN DATA SCIENCE IN 2021.

Analytics Insight

76% OF BUSINESSES PLAN TO INCREASE SPENDING OVER THE NEXT TWO YEARS ON DATA ANALYTICS CAPABILITIES.

Deloitte Access Economics Report

DATA SCIENCE AMONG TOP 20 FASTEST GROWING OCCUPATIONS

U.S. Bureau of Labor Statistics

CERTIFICATE

Showcase your competence with a Certificate of Completion from The University of Texas at Austin.



The University of Texas at Austin

Conferred to attest that

John Doe

has successfully completed the

Post Graduate Program in Data Science & Business Analytics

presented by the

McCombs School of Business May 2020

Gaylen Paulson, Ph.D. Associate Dean and Executive Director Texas Executive Education Kumar Muthuraman, Ph.D. Faculty Director, Business Analytics and AI Programs Texas Executive Education



TESTIMONIALS

"I would recommend it to anyone interested in upgrading their skillset or starting a new career."

- NAEEM SUFI
Lead WebFOCUS Administrator/Developer, Cognizant

"Perfect combination of relevant content, flexibility, academic rigor, and practical content that allowed me to immediately put all into practice at work."

- GABRIEL ARBE
Director of Strategy, Planning and Operations - Canada and LATAM, VMware

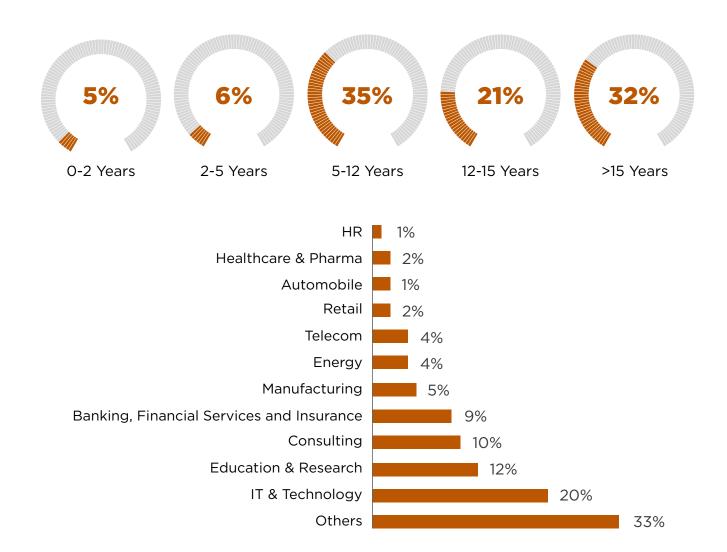
THE PROGRAM IS FOR YOU, IF YOU:

- Like solving problems in a structured manner.
- Love extracting insights from numbers to create insightful stories.
- Want to impact business decisions through evidence gathered from data.
- Want to inculcate 21st century competencies and build a strong career through them.
- Want to keep pace with a business world that's becoming increasingly data-driven.



PAST LEARNER PROFILES

Each of the cohorts represent a diverse mix of work experience, industries, and geographies - guaranteeing a truly global and eclectic learning experience. Below is an indicative mix of where past learners have come from.





KEY LEARNING OUTCOMES

- Build your expertise in the most widely-used Analytics tools and technologies.
- Develop the ability to independently solve business problems using Analytics and Data Science.
- Understand the applications and implications of Data Science in different industries.
- Learn how to extract strategic business insights from data and efficiently communicate them to stakeholders.
- Build models to predict future trends and use them to inform business strategy.
- Build a substantial body of work and an industry-ready portfolio in Data Science and Analytics.



COURSE CURRICULUM



MODULE 0 PRE-WORK

Learn the fundamentals of Python and programming to lay the foundations on which the rest of the course will be built. The module is released on enrollment.

MODULE 1

PYTHON FOUNDATIONS

Build the foundational skills for Data Analysis with Python, such as importing, reading, manipulating, and visualizing data.

Sample Project 1

Perform Exploratory Data Analysis to understand the popularity trends of movie genres and derive patterns in movie viewership.



MODULE 2 BUSINESS STATISTICS

Understand the role of statistics in helping organizations take effective decisions, learn its most widely-used tools and learn to solve business problems using analysis, data interpretation and experiments.

Sample Project 2

Help an insurance agency identify important patterns in data through statistical methods.

MODULE 3 SUPERVISED LEARNING

Explore the fundamentals of Supervised Machine Learning, its key concepts and types. You will also learn how to pre-process data to prepare it for modelling.

Sample Project 3

Utilise historical data of a banking firm's loan defaulters to predict expected loss for a given customer.



MODULE 4 SUPERVISED LEARNING CLASSIFICATION

Learn the conceptual frameworks of building classification models for accurate prediction in business contexts through popular ML approaches such as Logistic Regression and Decision Trees.

Sample Project 4

Identify potential loan customers for a bank by building a classification model that identifies candidates with a higher probability of purchasing a loan.

MODULE 5 ENSEMBLE TECHNIQUES

Ensemble methods help to improve the predictive performance of Machine Learning models. In this course, you will learn about Ensemble methods such as 'Random Forest' that combine several Machine Learning techniques into one predictive model in order to decrease variance, bias, or improve predictions.

Sample Project 5

Build a model to assist the marketing team of a company in identifying potential customers for a term deposit subscription.



MODULE 6 MODEL TUNING

Model building is an iterative process. Employing Feature Engineering techniques along with a careful model selection exercise helps to improve the model. Further, tuning the model is an important step to arrive at the best possible result. This module talks about the steps and processes around these.

Sample Project 6

Perform Feature Engineering and Model Tuning on a model designed to predict the strength of construction material to enhance accuracy.

MODULE 7 UNSUPERVISED LEARNING

Unsupervised Learning finds hidden patterns or intrinsic structures in data. In this course, you will learn about commonly-used clustering techniques like K-Means Clustering and Hierarchical Clustering.

Sample Project 7

Identify different segments from a bank's existing customer pool based on their spending patterns as well as past interactions with the bank.

SELF-PACED MODULES

MODULE 8 DEMYSTIFYING ChatGPT AND IT'S APPLICATIONS

Gain an understanding of what ChatGPT is and how it works. Delve into the implications of ChatGPT for work, business, and education. Additionally, learn about prompt engineering and how it can be used to fine-tune outputs for specific use cases.

MODULE 9 TIME SERIES FORECASTING

Time Series Analysis is used for prediction problems that involve a time component. In this module, you will build foundational knowledge of Time Series Analysis in Python and its applications in business contexts.

MODULE 10 MARKETING AND RETAIL ANALYTICS

Learn the applications of Data Analytics to Marketing and Retail. Understand how marketing analytics can be utilized to further marketing objectives and measure, improve, and predict performance.

MODULE 11 WEB AND SOCIAL MEDIA ANALYTICS

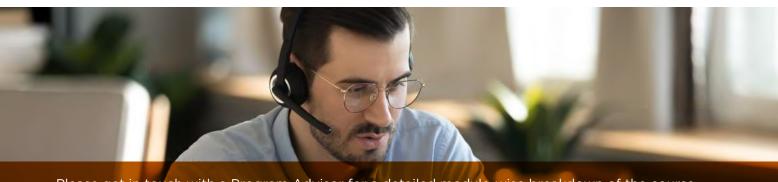
Learn how the data collected from websites and social media can be used to make business decisions through different types of web and social media analytics.

MODULE 12 FINANCE AND RISK ANALYTICS

Learn the applications of Data Analytics in Finance and Risk Management such as fraud detection, credit risk, probability of default modeling, etc.

MODULE 13 DATA VISUALIZATION

Master the fundamentals of communicating information efficiently to business users via information graphics. Learn to recognize visual characteristics of data, choose appropriate display mechanisms, and transform data into actionable insights through Data Visualization with Tableau.



Please get in touch with a Program Advisor for a detailed module-wise breakdown of the course curriculum at dsba.utaustin@mygreatlearning.com

A STRUCTURED

LEARNING JOURNEY



View & Learn Recorded Content

Consume recorded video lectures by UT Austin faculty & industry experts over the week.



Engage in a Mentor Session

Clarify your doubts and practice on live data-sets with your mentor on the weekend.



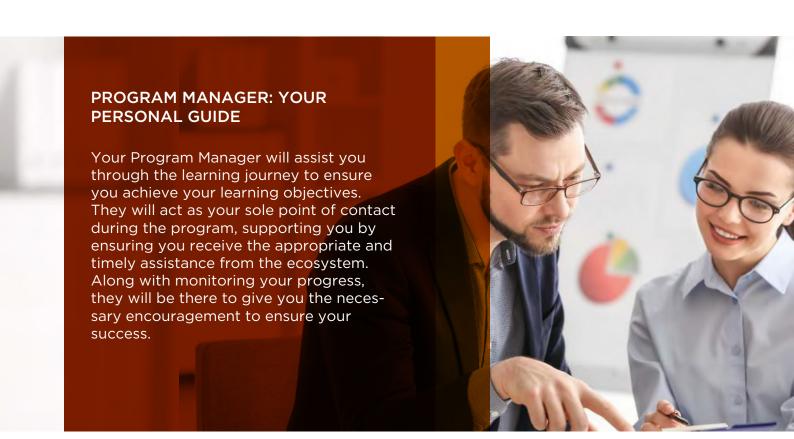
Complete a Hands-On Project

Work on a real-world problem to apply concepts and techniques learnt in the module.



Participate in Webinars by UT Austin

Get an insiders' perspective into the industry through webinars with leading UT Austin faculty every month.



LEARN FROM THE BEST OF ACADEMIA

The program is taught by academic experts in the fields of Data Science and Analytics. The faculty's vast experience with research as well as theory in the domains of Data Science and Analytics will be a crucial part of the learning journey that is aimed at inspiring a love for data in you and making you industry-ready.

FACULTY PROFILES



DR. KUMAR MUTHURAMAN

Faculty Director, Center for Research and Analytics, McCombs School of Business, The University of Texas at Austin. H. Timothy (Tim) Harkins Centennial Professor. M.S & Ph.D., Stanford University.



DR. ABHINANDA SARKAR

Academic Director, Great Learning.

Ph.D., Stanford University.



VIVEKANAND R
Industry Expert in Visualization
MBA, Monash University.



RAGHAVSHYAM RAMAMURTHY
Industry Expert in Visualization
MBA, Whitman School of Management.



DR. DAN MITCHELL
Assistant Professor, McCombs School of Business.
Ph.D., The University of Texas at Austin.

BECOME INDUSTRY-READY WITH LIVE MENTORSHIP

Along with strong theoretical foundations, hands-on learning goes a long way in preparing you to make data-driven decisions regarding business problems. As you work on real-life projects, you will receive personalized live mentorship every weekend from industry experts in Data Science and Analytics.

MENTOR PROFILES



SERDAR CELLAT

Principal Data Scientist
Liberty Mutual
Insurance (USA)



Data Science Specialist
FNB South Africa



NITISH JAIPURIA

Strategist - Data Science
Google (Singapore)



AVINASH RAMYEAD

Senior Quantitative UX

Researcher | Data Scientist |

Behavioral Scientist in Video ML



OLAYINKA FADAHUNSI
Head of Data Science and Engineering
Equity Bank Limited



SRIHARI NAGARAJAN
Senior Data Scientist
Amazon



BRIDGET HUANG-GREGOR
Senior Machine Learning Engineer
Capital One

Translate Your Learnings Into Practical Applications

- 48+ hours of live mentorship sessions focused on doubt-resolution and case-study based practice
- Collaborative yet personalized learning in small groups of up to 15 learners
- Network with peers from different geographies and domains
- Work on 7+ projects under the guidance of industry experts
- Hands-on learning with Data Science practitioners from leading organizations such as Google, Microsoft, Johnson & Johnson, Boston Consulting Group among others

CAREER SUPPORT

When you are beginning afresh in a field, insights from someone on the inside can help you get a headstart. Apart from the immediate result of landing a job, career coaches work with you on the long haul - building your strengths, working on gaps, and developing a strategy to achieve your career goals.

OUR ALUMNI WORK AT













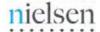
















and many more...

LAND YOUR DREAM **JOB WITH:**

1:1 CAREER SESSIONS

Interact personally with industry professionals to get valuable insights and guidance.

RESUME & LINKEDIN PROFILE REVIEW

Present yourself in the best light through assets that truly showcase your strengths.

INTERVIEW PREPARATION

Get an insiders' perspective to understand what recruiters look for.

E-PORTFOLIO

Build an industry-ready portfolio to showcase your mastery of skills and tools.



ADMISSION PROCESS

ELIGIBILITY

- Bachelor's or Undergraduate degree with at least 50% aggregate marks or equivalent.
- No programming experience required.

APPLICATION PROCESS



Application Form

Register by filling up the online application form. The program follows a rolling process, so we encourage you to apply early.



Shortlisting and Panel Review

A panel will review your application to determine your fit with the program. They will evaluate you on your academic performance, work experience, and motivation.



Interview/Screening

If shortlisted, you will go through a telephonic screening interview (This may be waived for candidates with strong profiles and experience).



Admissions Offer

After a final admissions committee review, you will receive an offer for a seat in the upcoming cohort of the program.

PROGRAM FEE

USD \$3,800

PROGRAM PARTNER



The McCombs School of Business at The University of Texas at Austin is collaborating with Great Learning to deliver this program in Artificial Intelligence and Machine Learning: Business Applications to learners from around the world.

Great Learning is one of the leading ed-tech platforms for professional and higher education. It offers comprehensive industry-relevant programs in Software Engineering, Business Management, Business Analytics, Data Science, Machine Learning, Artificial Intelligence, Cloud Computing, Cyber Security, Digital Marketing, Design Thinking, and more.

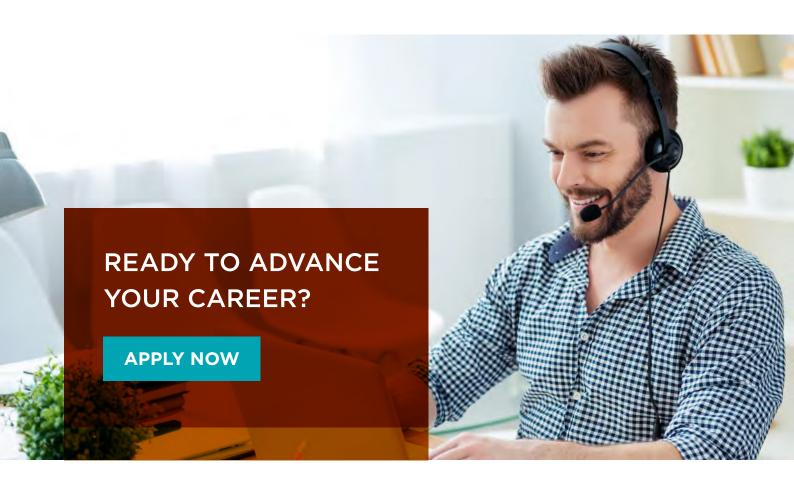
- 7.4 MILLION+ LEARNERS
- 5900+ INDUSTRY EXPERT MENTORS
- 170+ COUNTRIES
- 2600+ HIRING COMPANIES
- BEST ED-TECH COMPANY OF THE YEAR*

 *Indian Education Awards 2022 | *EdTech Review Awards 2020
- BEST ONLINE SKILLS PROVIDER*

*Entrepreneur, Education Innovation Awards 2022

Great Learning's programs are developed in collaboration with the world's foremost academic institutions like Stanford University, The University of Texas at Austin, MIT Professional Education, MIT Institute for Data, Systems, and Society (IDSS), Northwestern University, and many more. The programs are constantly reimagined and revamped to address the dynamic needs of the industry.

Having impacted 7.4 million+ learners from over 170+ countries, Great Learning is on a mission to enable transformative learning and career success in the digital economy for professionals and students across the globe.



CONTACT US

+1 512 793 9938

dsba. utaustin@mygreatlearning.com

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