

cuny ms data science

cuny ms data science programs represent a significant opportunity for students aiming to advance their careers in one of today's most dynamic and rapidly evolving fields. The City University of New York (CUNY) offers a Master of Science in Data Science designed to equip graduates with advanced analytical skills, programming expertise, and practical knowledge of machine learning, artificial intelligence, and big data technologies. This article explores the key aspects of the CUNY MS Data Science program, including curriculum structure, admission requirements, career prospects, and unique advantages of studying data science at CUNY. Readers will gain a comprehensive understanding of how this degree can prepare them for roles in data analysis, business intelligence, and beyond. The following sections will detail program features, faculty expertise, and the growing importance of data science in today's job market.

- Overview of the CUNY MS Data Science Program
- Curriculum and Coursework
- Admission Requirements and Application Process
- Career Opportunities and Industry Connections
- Unique Features and Benefits of the CUNY Program

Overview of the CUNY MS Data Science Program

The CUNY MS Data Science program is structured to provide students with a robust foundation in data science principles, computational techniques, and statistical methods. Designed for both recent graduates and working professionals, the program emphasizes hands-on experience through projects, internships, and collaboration with industry partners. CUNY's commitment to accessible education ensures that the program is competitively priced while maintaining rigorous academic standards. The program typically spans two years and includes coursework that prepares students to tackle complex data challenges across various sectors.

Program Objectives

The primary objectives of the CUNY MS Data Science degree focus on developing competencies in data manipulation, predictive modeling, and critical thinking. Students learn to apply machine learning algorithms, utilize big data platforms, and interpret data to make informed decisions. The program

also aims to foster ethical awareness regarding data privacy and security, an increasingly important aspect of data science practice.

Target Audience

This graduate program is ideal for individuals with backgrounds in computer science, statistics, mathematics, engineering, or related fields who seek to deepen their expertise in data science. Additionally, professionals aiming to transition into data-driven roles benefit from the curriculum's balance of theory and application.

Curriculum and Coursework

The curriculum of the CUNY MS Data Science program is comprehensive, covering a wide range of topics essential for mastering data science. Courses are designed to build skills progressively, integrating programming, statistical analysis, and machine learning techniques. The program also incorporates emerging technologies and tools relevant to the data science industry.

Core Courses

Core courses include:

- Data Structures and Algorithms
- Statistical Methods for Data Science
- Machine Learning and Artificial Intelligence
- Big Data Analytics
- Database Systems and Data Engineering
- Data Visualization and Communication

Electives and Specializations

Students may choose electives to tailor their learning experience towards specific interests such as natural language processing, computer vision, or advanced statistical modeling. This flexibility allows graduates to specialize in areas aligned with their career goals.

Capstone Projects and Practical Experience

A distinctive feature of the program is the integration of capstone projects, where students apply their knowledge to real-world problems. These projects often involve collaboration with corporate partners or public agencies, providing invaluable practical experience and networking opportunities.

Admission Requirements and Application Process

Admission to the CUNY MS Data Science program is competitive and based on academic merit, relevant experience, and the potential to succeed in the field. Prospective students must submit a detailed application package demonstrating their qualifications and motivation.

Academic Prerequisites

Applicants typically need a bachelor's degree in a related discipline such as computer science, mathematics, statistics, or engineering. Coursework in programming, calculus, and linear algebra is highly recommended to ensure preparedness for the rigorous curriculum.

Application Components

The application process involves the following elements:

- Official transcripts from all post-secondary institutions attended
- Letters of recommendation from academic or professional references
- A statement of purpose outlining career goals and interest in data science
- Resume or curriculum vitae highlighting relevant experience
- GRE scores (if required, depending on the specific CUNY campus policies)
- Proof of English proficiency for international applicants

Selection Criteria

Admissions committees evaluate applicants based on academic performance, professional experience, and alignment of career objectives with the program's offerings. Strong quantitative skills and demonstrated interest in data science enhance the likelihood of acceptance.

Career Opportunities and Industry Connections

Graduates of the CUNY MS Data Science program are well-positioned to enter a diverse array of industries that rely on data-driven decision-making. The program's emphasis on practical skills and industry collaborations facilitates smooth transitions into professional roles.

Job Roles and Industries

Typical career paths for graduates include:

- Data Scientist
- Data Analyst
- Machine Learning Engineer
- Business Intelligence Analyst
- Quantitative Analyst
- Data Engineer

These roles exist across sectors such as finance, healthcare, technology, government, and marketing.

Internships and Networking

CUNY's extensive network of industry partners provides students with internship opportunities that offer real-world experience and professional connections. The program often hosts events, workshops, and career fairs to facilitate interaction between students and potential employers.

Unique Features and Benefits of the CUNY Program

The CUNY MS Data Science program distinguishes itself through affordability, accessibility, and strong ties to New York City's vibrant data science community. Students benefit from experienced faculty, cutting-edge resources, and a diverse learning environment.

Affordability and Accessibility

CUNY's public university status ensures that the MS Data Science program is financially accessible compared to many private institutions. This affordability makes it an attractive option for students seeking quality education without prohibitive costs.

Faculty Expertise and Research Opportunities

The faculty members are active researchers and industry professionals with expertise in various data science subfields. Students have opportunities to engage in research projects, contributing to advancements in areas like machine learning algorithms, data ethics, and computational statistics.

Location Advantages

Being situated in New York City, CUNY offers proximity to a large number of corporations, startups, and research institutions. This geographic advantage enhances students' ability to secure internships, attend industry events, and collaborate with professionals in the field.

Frequently Asked Questions

What is the CUNY MS Data Science program?

The CUNY MS Data Science program is a master's degree offered by the City University of New York that focuses on training students in data analysis, machine learning, statistics, and computational techniques to solve real-world problems.

Which CUNY campuses offer the MS Data Science program?

Several CUNY campuses offer the MS Data Science program, including the CUNY Graduate Center and other affiliated colleges, providing flexible options for students across New York City.

What are the admission requirements for the CUNY MS Data Science program?

Admission requirements typically include a bachelor's degree in a related field, a strong background in mathematics and programming, letters of recommendation, a statement of purpose, and GRE scores (if required by the specific campus).

What career opportunities are available after completing the CUNY MS Data Science program?

Graduates can pursue careers as data scientists, data analysts, machine learning engineers, business intelligence analysts, and other roles in industries like finance, healthcare, technology, and government.

Does the CUNY MS Data Science program offer online or part-time options?

Some CUNY campuses provide flexible scheduling options, including part-time enrollment and online or hybrid courses, to accommodate working professionals and diverse student needs.

What programming languages and tools are taught in the CUNY MS Data Science program?

The curriculum commonly includes Python, R, SQL, machine learning libraries (such as TensorFlow and scikit-learn), data visualization tools, and big data platforms like Hadoop and Spark.

Are there opportunities for research or internships within the CUNY MS Data Science program?

Yes, the program often includes opportunities for applied research projects, internships with industry partners, and collaborations with faculty to gain practical experience in data science.

Additional Resources

1. Mastering Data Science at CUNY: A Comprehensive Guide

This book offers an in-depth overview of the data science curriculum and research opportunities available at CUNY's MS Data Science program. It covers essential topics such as machine learning, big data analytics, and statistical modeling, all tailored to the program's structure. Students and professionals alike will find practical advice on navigating coursework, internships, and career paths post-graduation.

2. Applied Machine Learning for CUNY Data Science Students

Designed specifically for CUNY MS Data Science students, this book emphasizes hands-on machine learning techniques using Python and R. It includes real-world datasets and projects inspired by the coursework and research at CUNY. The text bridges theoretical concepts with practical applications, helping readers build strong foundational skills.

3. Big Data Analytics in Urban Environments: Insights from CUNY

Focusing on urban data challenges, this book explores how CUNY data science

researchers and students apply big data analytics to real-world urban problems such as transportation, public health, and social equity. It features case studies and methodologies that demonstrate the impact of data-driven decision-making in metropolitan settings.

4. Statistics and Probability for CUNY MS Data Science

This book provides a thorough grounding in statistics and probability tailored to the needs of CUNY data science graduate students. It covers essential probabilistic models, inferential statistics, and hypothesis testing with examples drawn from CUNY coursework. The text aims to solidify the quantitative skills necessary for advanced data analysis.

5. Data Visualization Techniques for CUNY Data Scientists

Emphasizing the importance of storytelling through data, this book trains CUNY students in modern data visualization tools and best practices. It covers software like Tableau, D3.js, and matplotlib, with practical examples aligned with projects from the CUNY MS Data Science program. Readers learn to create compelling visual narratives that enhance data understanding.

6. Ethics and Privacy in Data Science: Perspectives from CUNY

Addressing the critical issues of ethics and privacy, this book reflects on how CUNY's data science curriculum integrates responsible data practices. It discusses case studies involving data breaches, bias in algorithms, and privacy regulations such as GDPR and HIPAA. The book encourages students to consider the societal impacts of their work.

7. Deep Learning Fundamentals for CUNY MS Data Science

This text introduces deep learning concepts with a focus on applications relevant to the CUNY MS Data Science program. It covers neural networks, convolutional networks, and recurrent networks with practical coding examples. The book prepares students to tackle complex data problems using cutting-edge AI techniques.

8. Natural Language Processing in the CUNY Data Science Curriculum

Exploring the intersection of linguistics and data science, this book delves into NLP techniques taught at CUNY. Topics include sentiment analysis, topic modeling, and language generation, supported by projects that mirror those in the program. It serves as a valuable resource for students interested in text data and AI-driven language tools.

9. Career Paths and Industry Insights for CUNY MS Data Science Graduates

This guide offers practical advice on career planning, resume building, and networking tailored for CUNY data science graduates. It features interviews with alumni working in various industries such as finance, healthcare, and technology. The book also highlights internship opportunities and strategies for job placement in competitive markets.

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cuny ms data science: Data Science Careers, Training, and Hiring Renata Rawlings-Goss, 2019-08-02 This book is an information packed overview of how to structure a data science career, a data science degree program, and how to hire a data science team, including resources and insights from the authors experience with national and international large-scale data projects as well as industry, academic and government partnerships, education, and workforce. Outlined here are tips and insights into navigating the data ecosystem as it currently stands, including career skills, current training programs, as well as practical hiring help and resources. Also, threaded through the book is the outline of a data ecosystem, as it could ultimately emerge, and how career seekers, training programs, and hiring managers can steer their careers, degree programs, and organizations to align with the broader future of data science. Instead of riding the current wave, the author ultimately seeks to help professionals, programs, and organizations alike prepare a sustainable plan for growth in this ever-changing world of data. The book is divided into three sections, the first "Building Data Careers", is from the perspective of a potential career seeker interested in a career in data, the second "Building Data Programs" is from the perspective of a newly forming data science degree or training program, and the third "Building Data Talent and Workforce" is from the perspective of a Data and Analytics Hiring Manager. Each is a detailed introduction to the topic with practical steps and professional recommendations. The reason for presenting the book from different points of view is that, in the fast-paced data landscape, it is helpful to each group to more thoroughly understand the desires and challenges of the other. It will, for example, help the career seekers to understand best practices for hiring managers to better position themselves for jobs. It will be invaluable for data training programs to gain the perspective of career seekers, who they want to help and attract as students. Also, hiring managers will not only need data talent to hire, but workforce pipelines that can only come from partnerships with universities, data training programs, and educational experts. The interplay gives a broader perspective from which to build.

cuny ms data science: Practical Data Analytics for Innovation in Medicine Gary D. Miner, Linda A. Miner, Scott Burk, Mitchell Goldstein, Robert Nisbet, Nephi Walton, Thomas Hill, 2023-02-08 Practical Data Analytics for Innovation in Medicine: Building Real Predictive and Prescriptive Models in Personalized Healthcare and Medical Research Using AI, ML, and Related Technologies, Second Edition discusses the needs of healthcare and medicine in the 21st century, explaining how data analytics play an important and revolutionary role. With healthcare effectiveness and economics facing growing challenges, there is a rapidly emerging movement to fortify medical treatment and administration by tapping the predictive power of big data, such as predictive analytics, which can bolster patient care, reduce costs, and deliver greater efficiencies across a wide range of operational functions. Sections bring a historical perspective, highlight the importance of using predictive analytics to help solve health crisis such as the COVID-19 pandemic, provide access to practical step-by-step tutorials and case studies online, and use exercises based on real-world examples of successful predictive and prescriptive tools and systems. The final part of the book focuses on specific technical operations related to quality, cost-effective medical and nursing care delivery and administration brought by practical predictive analytics. - Brings a historical perspective in medical care to discuss both the current status of health care delivery worldwide and the importance of using modern predictive analytics to help solve the health care crisis - Provides online tutorials on several predictive analytics systems to help readers apply their knowledge on

today's medical issues and basic research - Teaches how to develop effective predictive analytic research and to create decisioning/prescriptive analytic systems to make medical decisions quicker and more accurate

cuny ms data science: It's All Analytics! Scott Burk, Gary D. Miner, 2020-05-25 It's All Analytics! The Foundations of AI, Big Data and Data Science Landscape for Professionals in Healthcare, Business, and Government (978-0-367-35968-3, 325690) Professionals are challenged each day by a changing landscape of technology and terminology. In recent history, especially in the last 25 years, there has been an explosion of terms and methods that automate and improve decision-making and operations. One term, analytics, is an overarching description of a compilation of methodologies. But AI (artificial intelligence), statistics, decision science, and optimization, which have been around for decades, have resurged. Also, things like business intelligence, online analytical processing (OLAP) and many, many more have been born or reborn. How is someone to make sense of all this methodology and terminology? This book, the first in a series of three, provides a look at the foundations of artificial intelligence and analytics and why readers need an unbiased understanding of the subject. The authors include the basics such as algorithms, mental concepts, models, and paradigms in addition to the benefits of machine learning. The book also includes a chapter on data and the various forms of data. The authors wrap up this book with a look at the next frontiers such as applications and designing your environment for success, which segue into the topics of the next two books in the series.

cuny ms data science: It's All Analytics, Part III Scott Burk, Gary Miner, 2023-09-15 Professionals are challenged each day by a changing landscape of technology and terminology. In recent history, especially the last 25 years, there has been an explosion of terms and methods born that automate and improve decision-making and operations. One term, called analytics, is an overarching description of a compilation of methodologies. But artificial intelligence (AI), statistics, decision science, and optimization, which have been around for decades, have resurged. Also, things like business intelligence, online analytical processing (OLAP) and many, many more have been born or reborn. How is someone to make sense of all this methodology, terminology? Extending on the foundations introduced in the first book, this book illustrates how professionals in healthcare, business, and government are applying these disciplines, methods, and technologies. The goal of this book is to get leaders and practitioners to start thinking about how they may deploy techniques outside their function or industry into their domain. Application of modern technology into new areas is one of the fastest, most effective ways to improve results. By providing a rich set of examples, this book fosters creativity in the application and use of AI and analytics in innovative ways.

cuny ms data science: Developing Analytic Talent Vincent Granville, 2014-03-24 Learn what it takes to succeed in the the most in-demand tech job Harvard Business Review calls it the sexiest tech job of the 21st century. Data scientists are in demand, and this unique book shows you exactly what employers want and the skill set that separates the quality data scientist from other talented IT professionals. Data science involves extracting, creating, and processing data to turn it into business value. With over 15 years of big data, predictive modeling, and business analytics experience, author Vincent Granville is no stranger to data science. In this one-of-a-kind guide, he provides insight into the essential data science skills, such as statistics and visualization techniques, and covers everything from analytical recipes and data science tricks to common job interview questions, sample resumes, and source code. The applications are endless and varied: automatically detecting spam and plagiarism, optimizing bid prices in keyword advertising, identifying new molecules to fight cancer, assessing the risk of meteorite impact. Complete with case studies, this book is a must, whether you're looking to become a data scientist or to hire one. Explains the finer points of data science, the required skills, and how to acquire them, including analytical recipes, standard rules, source code, and a dictionary of terms Shows what companies are looking for and how the growing importance of big data has increased the demand for data scientists Features job interview questions, sample resumes, salary surveys, and examples of job ads Case studies explore how data

science is used on Wall Street, in botnet detection, for online advertising, and in many other business-critical situations. **Developing Analytic Talent: Becoming a Data Scientist** is essential reading for those aspiring to this hot career choice and for employers seeking the best candidates.

cuny ms data science: Applied Population Health Approaches for Asian American Communities Simona C. Kwon, Chau Trinh-Shevrin, Nadia S. Islam, Stella S. Yi, 2022-12-08 An insightful text exploring health disparities in Asian American populations. In the newly revised Second Edition of *Applied Population Health Approaches for Asian American Communities*, a team of distinguished public health experts delivers a groundbreaking resource providing an in-depth examination of the social, political, economic, and cultural forces shaping Asian American health today. Integrating up-to-date applied public health research for assessing health interventions and programs relevant to Asian American communities and other groups that have been historically marginalized, this book highlights the different frameworks, research designs, and other methodological considerations for reaching Asian American and other ethnic communities. In the latest edition of the book, readers will find contextual explorations of the Asian American population in the United States, as well as discussions of the measurement of health and risk across the lifespan in Asian American groups. It also includes: New and updated case studies showcasing the application of different frameworks and research designs; Methodological considerations for reaching Asian American and other vulnerable and underserved communities; Examples of successful implementations of community engagement and community-based participatory research. A valuable resource for all levels of health professionals, practitioners, and community advocates, *Applied Population Health Approaches for Asian American Communities* remains the leading reference for anyone conducting or studying health disparities in Asian American communities or other groups that have been marginalized.

cuny ms data science: Ethics in the Age of AI Leo Lin, 2025-04-14 As artificial intelligence (AI) becomes increasingly integrated into the political and security landscape, it is essential to consider the ethical implications of this development. *Ethics in the Age of AI: Navigating Politics and Security* brings together leading experts to explore the complex moral dilemmas and opportunities arising from the ever-evolving AI landscape. This book addresses a wide range of topics, including the role of AI in political systems, global geopolitics, intelligence, surveillance, and the urgent need for ethical frameworks in AI governance. It provides a critical analysis of AI's potential benefits and risks, and offers guidance on ensuring that this technology is used responsibly and ethically. This book is an essential guide for policymakers, researchers, and concerned citizens who want to shape a future where AI aligns with our shared values. It is a timely and important book that will help us navigate the AI age's ethical challenges.

cuny ms data science: A Deeper Perspective on the Fundamentals of Digital Communication, Security, and Privacy Protocols Kutub Thakur, Abu Kamruzzaman, Al-Sakib Khan Pathan, 2022-06-30 This book, divided into three parts, describes the detailed concepts of Digital Communication, Security, and Privacy protocols. In Part One, the first chapter provides a deeper perspective on communications, while Chapters 2 and 3 focus on analog and digital communication networks. Part Two then delves into various Digital Communication protocols. Beginning first in Chapter 4 with the major Telephony protocols, Chapter 5 then focuses on important Data Communication protocols, leading onto the discussion of Wireless and Cellular Communication protocols in Chapter 6 and Fiber Optic Data Transmission protocols in Chapter 7. Part Three covers Digital Security and Privacy protocols including Network Security protocols (Chapter 8), Wireless Security protocols (Chapter 9), and Server Level Security systems (Chapter 10), while the final chapter covers various aspects of privacy related to communication protocols and associated issues. This book will offer great benefits to graduate and undergraduate students, researchers, and practitioners. It could be used as a textbook as well as reference material for these topics. All the authors are well-qualified in this domain. The authors have an approved textbook that is used in some US, Saudi, and Bangladeshi universities since Fall 2020 semester - although used in online lectures/classes due to COVID-19 pandemic.

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cuny ms data science: *Guide to Teaching Data Science* Orit Hazzan, Koby Mike, 2023-03-20

Data science is a new field that touches on almost every domain of our lives, and thus it is taught in a variety of environments. Accordingly, the book is suitable for teachers and lecturers in all educational frameworks: K-12, academia and industry. This book aims at closing a significant gap in the literature on the pedagogy of data science. While there are many articles and white papers dealing with the curriculum of data science (i.e., what to teach?), the pedagogical aspect of the field (i.e., how to teach?) is almost neglected. At the same time, the importance of the pedagogical aspects of data science increases as more and more programs are currently open to a variety of people. This book provides a variety of pedagogical discussions and specific teaching methods and frameworks, as well as includes exercises, and guidelines related to many data science concepts (e.g., data thinking and the data science workflow), main machine learning algorithms and concepts (e.g., KNN, SVM, Neural Networks, performance metrics, confusion matrix, and biases) and data science professional topics (e.g., ethics, skills and research approach). Professor Orit Hazzan is a faculty member at the Technion's Department of Education in Science and Technology since October 2000. Her research focuses on computer science, software engineering and data science education. Within this framework, she studies the cognitive and social processes on the individual, the team and the organization levels, in all kinds of organizations. Dr. Koby Mike is a Ph.D. graduate from the Technion's Department of Education in Science and Technology under the supervision of Professor Orit Hazzan. He continued his post-doc research on data science education at the Bar-Ilan University, and obtained a B.Sc. and an M.Sc. in Electrical Engineering from Tel Aviv University.

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Katherine McMillan Culp, Margaret Honey, 2021-08-16 This pioneering book offers a resource for educators, policymakers, researchers, exhibit designers, and program developers that illuminates creative, cutting-edge ways to inspire, engage, and motivate young people about STEM learning in both informal and formal education settings. A follow-up to the popular book *Design, Make, Play* (2013), this volume combines new research, innovative case studies, and practical advice from the New York Hall of Science (NYSCI) to define and illustrate a vision for creative and immersive learning, focusing on STEM learning experiences that are truly equitable and inclusive, and that foster learners' agency. Featuring contributions from program developers, facilitators, educators, exhibit designers, and researchers, the book provides real-world examples from informal and formal settings that fill the need for high-quality STEM learning opportunities that are accessible to all learners, including groups underrepresented in STEM education and careers. Chapters of the book describe strategies such as using narratives to make engineering learning more inclusive, engaging English language learners in digital design, focusing on whole-family learning, and introducing underserved students to computational thinking through an immersive computer game. This book offers both a challenge and a guide to all STEM educators in museums, science centers, and other informal and formal education settings who are seeking out ambitious and more equitable forms of engagement. With leading-edge research and practical advice, the book provides appealing and accessible forms of engagement that will support a diverse range of audiences and deepen their approach to creative STEM learning.

cuny ms data science: *Law Librarianship Practice* Ellyssa Kroski, 2025-07-10 This

ground-breaking new legal librarianship book serves as an invaluable resource for practicing law librarians who want to be at the forefront of information technology and law libraries. Law librarianship is a constantly evolving field that has seen major shifts in practice over the past several years including the post-pandemic trend towards remote and hybrid work, the increased prominence of virtual services, the outsourcing of library staff, burgeoning cybersecurity risks, and the advent of generative AI. Law librarians have adroitly adapted to all of these changes and have once again proven their resilience. *Law Librarianship Practice* is a cutting-edge book that provides insights into the latest emerging trends and technologies in academic, government, and law firm librarianship. This book offers guidance from forward-thinking library leaders on how they are tackling the challenges of law librarianship today including; managing remote workforces, negotiating with

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and discrimination have shaped environmental health inequities that persist today. Readers can dig deeper to examine how environmental health and justice can be achieved in our communities, workplaces, households, and other built and social environments, as well as our healthcare systems. Drawing on countless historic and contemporary case studies, *Environmental Health: Foundations for Public Health* facilitates a learning experience that inspires students to reimagine the foundations of environmental health for all. Key Features: Provides a variety of learning tools, including discussion questions and learning activities, related to engagement, advocacy, and the exploration of environmental health in our daily lives Presents In Other Words boxes to reframe key or complex concepts and promote accessibility Humanizes the realities of pressing environmental health and justice concerns Includes access to a five-episode companion podcast series—The PFAS Chronicles—on the challenges and solutions of preventing and combating per- and polyfluoroalkyl substances (PFAS), or forever chemicals Qualified instructors have access to expanded Instructor Resources featuring chapter PowerPoint slides, a Test Bank, a Sample Syllabus, and an Instructor Manual to supplement students' dynamic learning and interaction with the text

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