## BEST MAJORS FOR DATA SCIENCE

BEST MAJORS FOR DATA SCIENCE ARE CRUCIAL FOR STUDENTS AIMING TO ENTER THIS RAPIDLY GROWING FIELD. DATA SCIENCE COMBINES EXPERTISE IN STATISTICS, COMPUTER SCIENCE, AND DOMAIN-SPECIFIC KNOWLEDGE TO EXTRACT MEANINGFUL INSIGHTS FROM VAST AMOUNTS OF DATA. CHOOSING THE RIGHT MAJOR LAYS THE FOUNDATION FOR ACQUIRING ESSENTIAL SKILLS SUCH AS PROGRAMMING, MACHINE LEARNING, DATA ANALYSIS, AND DATABASE MANAGEMENT. THIS ARTICLE EXPLORES THE TOP ACADEMIC DISCIPLINES THAT PREPARE STUDENTS FOR SUCCESSFUL CAREERS IN DATA SCIENCE. IT HIGHLIGHTS THE CORE COMPETENCIES GAINED FROM EACH MAJOR AND HOW THEY ALIGN WITH INDUSTRY DEMANDS. ADDITIONALLY, THE ARTICLE DISCUSSES EMERGING INTERDISCIPLINARY FIELDS THAT COMPLEMENT TRADITIONAL DATA SCIENCE EDUCATION. UNDERSTANDING THESE OPTIONS HELPS PROSPECTIVE STUDENTS MAKE INFORMED DECISIONS ABOUT THEIR EDUCATIONAL PATHS AND CAREER TRAJECTORIES.

- TOP TRADITIONAL MAJORS FOR DATA SCIENCE
- INTERDISCIPLINARY AND EMERGING MAJORS
- Skills Developed Through Each Major
- FACTORS TO CONSIDER WHEN CHOOSING A MAJOR

## TOP TRADITIONAL MAJORS FOR DATA SCIENCE

SEVERAL TRADITIONAL ACADEMIC MAJORS PROVIDE A STRONG FOUNDATION FOR A CAREER IN DATA SCIENCE. THESE FIELDS EMPHASIZE QUANTITATIVE SKILLS, ANALYTICAL THINKING, AND TECHNICAL EXPERTISE, WHICH ARE ESSENTIAL FOR HANDLING COMPLEX DATA PROBLEMS. BELOW ARE SOME OF THE MOST RECOGNIZED AND WIDELY PURSUED MAJORS FOR ASPIRING DATA SCIENTISTS.

## COMPUTER SCIENCE

COMPUTER SCIENCE IS OFTEN CONSIDERED THE PREMIER MAJOR FOR DATA SCIENCE DUE TO ITS FOCUS ON PROGRAMMING, ALGORITHMS, AND SOFTWARE DEVELOPMENT. STUDENTS LEARN LANGUAGES SUCH AS PYTHON, JAVA, AND R, WHICH ARE WIDELY USED IN DATA SCIENCE APPLICATIONS. COURSES IN DATABASES, ARTIFICIAL INTELLIGENCE, AND MACHINE LEARNING EQUIP GRADUATES WITH THE TOOLS TO PROCESS AND ANALYZE LARGE DATASETS EFFICIENTLY. COMPUTER SCIENCE MAJORS DEVELOP A STRONG UNDERSTANDING OF COMPUTATIONAL THEORY AND PRACTICAL CODING SKILLS, BOTH CRITICAL FOR BUILDING DATADRIVEN SOLUTIONS.

## **STATISTICS**

STATISTICS IS FUNDAMENTAL TO DATA SCIENCE, FOCUSING ON DATA COLLECTION, ANALYSIS, INTERPRETATION, AND PRESENTATION. MAJORS IN STATISTICS GAIN EXPERTISE IN PROBABILITY THEORY, INFERENTIAL STATISTICS, AND EXPERIMENTAL DESIGN. THIS BACKGROUND ENABLES THEM TO DRAW VALID CONCLUSIONS AND MAKE DATA-DRIVEN DECISIONS. MANY DATA SCIENCE METHODOLOGIES RELY HEAVILY ON STATISTICAL PRINCIPLES TO CREATE PREDICTIVE MODELS AND VALIDATE FINDINGS. A DEGREE IN STATISTICS ALSO OFTEN INCLUDES TRAINING IN STATISTICAL SOFTWARE LIKE SAS, SPSS, or R.

### MATHEMATICS

MATHEMATICS PROVIDES THE THEORETICAL BACKBONE FOR DATA SCIENCE, ESPECIALLY IN AREAS LIKE LINEAR ALGEBRA, CALCULUS, AND DISCRETE MATHEMATICS. MATHEMATICAL SKILLS ARE ESSENTIAL FOR UNDERSTANDING MACHINE LEARNING ALGORITHMS, OPTIMIZATION TECHNIQUES, AND DATA MODELING. STUDENTS MAJORING IN MATHEMATICS DEVELOP STRONG PROBLEM-SOLVING ABILITIES AND ANALYTICAL REASONING, WHICH ARE INVALUABLE WHEN DESIGNING COMPLEX DATA SCIENCE SOLUTIONS. THIS MAJOR OFTEN OVERLAPS WITH STATISTICS AND COMPUTER SCIENCE, CREATING A COMPREHENSIVE FOUNDATION FOR DATA ANALYSIS.

## INFORMATION TECHNOLOGY AND INFORMATION SYSTEMS

Majors in Information Technology (IT) and Information Systems focus on the infrastructure and tools required to manage and retrieve data. These programs teach database management, network administration, and systems analysis, providing knowledge of how data is stored and accessed. IT and Information Systems graduates understand the technical environment that supports data science efforts, including cloud computing and big data technologies. Their skills are crucial for implementing data science projects in organizational settings.

# INTERDISCIPLINARY AND EMERGING MAJORS

BEYOND TRADITIONAL MAJORS, SEVERAL INTERDISCIPLINARY PROGRAMS HAVE EMERGED TO ADDRESS THE MULTIFACETED NATURE OF DATA SCIENCE. THESE MAJORS INTEGRATE KNOWLEDGE FROM VARIOUS FIELDS TO PRODUCE WELL-ROUNDED GRADUATES EQUIPPED TO TACKLE DIVERSE DATA CHALLENGES.

## DATA SCIENCE AND ANALYTICS

Many universities now offer dedicated majors or concentrations in Data Science or Data Analytics. These programs combine coursework in computer science, statistics, and domain-specific knowledge to provide a focused curriculum. Students learn data wrangling, visualization, machine learning, and ethical considerations in data handling. Such specialized majors are designed to meet the direct needs of the data science industry and often include practical projects and internships.

## **BUSINESS ANALYTICS**

BUSINESS ANALYTICS IS AN INTERDISCIPLINARY MAJOR THAT APPLIES DATA SCIENCE TECHNIQUES TO BUSINESS PROBLEMS. IT EMPHASIZES STATISTICAL ANALYSIS, PREDICTIVE MODELING, AND DECISION SCIENCES WITHIN A BUSINESS CONTEXT. STUDENTS ACQUIRE SKILLS IN DATA-DRIVEN STRATEGY, MARKETING ANALYTICS, AND OPERATIONS MANAGEMENT. THIS MAJOR IS IDEAL FOR THOSE INTERESTED IN LEVERAGING DATA SCIENCE TO IMPROVE ORGANIZATIONAL PERFORMANCE AND COMPETITIVENESS.

## ENGINEERING DISCIPLINES

FIELDS SUCH AS ELECTRICAL ENGINEERING, INDUSTRIAL ENGINEERING, AND SYSTEMS ENGINEERING PROVIDE A STRONG QUANTITATIVE AND TECHNICAL BACKGROUND APPLICABLE TO DATA SCIENCE. ENGINEERING MAJORS DEVELOP EXPERTISE IN SIGNAL PROCESSING, OPTIMIZATION, AND SYSTEMS MODELING, WHICH ARE TRANSFERABLE TO ANALYZING COMPLEX DATASETS. THEIR TRAINING OFTEN INCLUDES PROGRAMMING AND APPLIED MATHEMATICS, ENABLING THEM TO CONTRIBUTE TO ALGORITHM

## SOCIAL SCIENCES WITH QUANTITATIVE FOCUS

MAJORS LIKE ECONOMICS, PSYCHOLOGY, AND SOCIOLOGY SOMETIMES OFFER QUANTITATIVE TRACKS OR CONCENTRATIONS THAT EMPHASIZE STATISTICAL METHODS AND DATA ANALYSIS. THESE PROGRAMS PROVIDE DOMAIN-SPECIFIC KNOWLEDGE ALONGSIDE ANALYTICAL SKILLS, PREPARING STUDENTS TO APPLY DATA SCIENCE TECHNIQUES IN SOCIAL RESEARCH, MARKET ANALYSIS, OR POLICY EVALUATION. COMBINING SOCIAL SCIENCE INSIGHTS WITH DATA SCIENCE METHODS CAN LEAD TO IMPACTFUL, EVIDENCE-BASED DECISION-MAKING.

# SKILLS DEVELOPED THROUGH EACH MAJOR

EACH MAJOR CULTIVATES A UNIQUE SET OF SKILLS THAT COLLECTIVELY COVER THE BROAD SPECTRUM OF DATA SCIENCE COMPETENCIES. UNDERSTANDING THESE SKILL SETS HELPS CLARIFY HOW DIFFERENT ACADEMIC PATHS CONTRIBUTE TO DATA SCIENCE EXPERTISE.

- 1. **PROGRAMMING AND SOFTWARE DEVELOPMENT:** COMPUTER SCIENCE AND ENGINEERING MAJORS EXCEL IN CODING, ALGORITHM DESIGN, AND SOFTWARE ENGINEERING PRACTICES.
- 2. **STATISTICAL ANALYSIS AND MODELING:** STATISTICS AND MATHEMATICS MAJORS DEVELOP RIGOROUS SKILLS IN PROBABILITY, HYPOTHESIS TESTING, AND PREDICTIVE MODELING.
- 3. **Data Management and Infrastructure:** Information Technology and Information Systems majors focus on database design, data warehousing, and cloud technologies.
- 4. **DOMAIN-SPECIFIC KNOWLEDGE:** BUSINESS ANALYTICS AND SOCIAL SCIENCE MAJORS APPLY DATA TECHNIQUES WITHIN SPECIFIC INDUSTRIES OR RESEARCH AREAS.
- 5. MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE: SPECIALIZED DATA SCIENCE MAJORS INTEGRATE MACHINE LEARNING ALGORITHMS AND AI CONCEPTS IN THEIR CURRICULUM.
- 6. **Data Visualization and Communication:** Many programs emphasize the ability to present data findings clearly to stakeholders across disciplines.

# FACTORS TO CONSIDER WHEN CHOOSING A MAJOR

SELECTING THE BEST MAJOR FOR DATA SCIENCE DEPENDS ON INDIVIDUAL INTERESTS, CAREER GOALS, AND LEARNING PREFERENCES. PROSPECTIVE STUDENTS SHOULD EVALUATE SEVERAL KEY FACTORS BEFORE DECIDING.

# CAREER OBJECTIVES

Understanding the intended career path is critical. For example, those aiming for roles in software engineering or algorithm development may prefer Computer Science. Conversely, individuals interested in data interpretation and statistical modeling might choose Statistics or Mathematics.

### INTERDISCIPLINARY OPPORTUNITIES

DATA SCIENCE IS INHERENTLY INTERDISCIPLINARY. MAJORS THAT OFFER FLEXIBILITY TO COMBINE COMPUTER SCIENCE, STATISTICS, AND DOMAIN KNOWLEDGE CAN PROVIDE A COMPETITIVE ADVANTAGE. PROGRAMS WITH JOINT DEGREES OR MINORS ALLOW STUDENTS TO TAILOR THEIR EDUCATION TO SPECIFIC INDUSTRIES OR INTERESTS.

## CURRICULUM AND PRACTICAL EXPERIENCE

THE CURRICULUM SHOULD INCLUDE HANDS-ON PROJECTS, INTERNSHIPS, OR CO-OP PROGRAMS THAT PROVIDE REAL-WORLD DATA SCIENCE EXPERIENCE. PRACTICAL EXPOSURE TO TOOLS LIKE PYTHON, SQL, HADOOP, AND TABLEAU IS ESSENTIAL TO COMPLEMENT THEORETICAL KNOWLEDGE.

## INDUSTRY DEMAND AND TRENDS

KEEPING ABREAST OF EVOLVING INDUSTRY REQUIREMENTS AND EMERGING TECHNOLOGIES HELPS STUDENTS SELECT MAJORS ALIGNED WITH CURRENT AND FUTURE JOB MARKETS. FIELDS INCORPORATING MACHINE LEARNING, BIG DATA, AND AI TEND TO BE HIGHLY SOUGHT AFTER.

## FACULTY EXPERTISE AND RESOURCES

PROGRAMS LED BY EXPERIENCED FACULTY WITH RESEARCH AND INDUSTRY CONNECTIONS CAN OFFER ENHANCED LEARNING OPPORTUNITIES, MENTORSHIP, AND NETWORKING ADVANTAGES.

- ASSESS PERSONAL INTERESTS AND STRENGTHS
- EVALUATE PROGRAM CURRICULUM AND SPECIALIZATION OPTIONS
- CONSIDER OPPORTUNITIES FOR INTERNSHIPS AND APPLIED LEARNING
- RESEARCH FACULTY QUALIFICATIONS AND INDUSTRY PARTNERSHIPS
- ANALYZE LONG-TERM CAREER PROSPECTS AND JOB MARKET TRENDS

# FREQUENTLY ASKED QUESTIONS

## WHAT ARE THE BEST UNDERGRADUATE MAJORS FOR A CAREER IN DATA SCIENCE?

Some of the best undergraduate majors for data science include Computer Science, Statistics, Mathematics, Data Science, and Engineering disciplines. These majors provide a strong foundation in programming, statistical analysis, and problem-solving skills essential for data science.

# IS A MAJOR IN COMPUTER SCIENCE IDEAL FOR DATA SCIENCE ROLES?

YES, A MAJOR IN COMPUTER SCIENCE IS HIGHLY IDEAL FOR DATA SCIENCE ROLES BECAUSE IT COVERS ESSENTIAL TOPICS LIKE

ALGORITHMS, PROGRAMMING, DATA STRUCTURES, AND MACHINE LEARNING, WHICH ARE CRITICAL FOR HANDLING AND ANALYZING LARGE DATASETS.

# CAN MAJORS OUTSIDE OF STEM FIELDS LEAD TO A SUCCESSFUL CAREER IN DATA SCIENCE?

WHILE STEM MAJORS LIKE MATHEMATICS, STATISTICS, AND COMPUTER SCIENCE ARE MOST COMMON, MAJORS IN ECONOMICS, BUSINESS ANALYTICS, OR SOCIAL SCIENCES COMBINED WITH STRONG TECHNICAL SKILLS AND PROGRAMMING KNOWLEDGE CAN ALSO LEAD TO A SUCCESSFUL DATA SCIENCE CAREER.

## HOW IMPORTANT IS MATHEMATICS OR STATISTICS AS A MAJOR FOR DATA SCIENCE?

MATHEMATICS AND STATISTICS ARE VERY IMPORTANT MAJORS FOR DATA SCIENCE BECAUSE THEY PROVIDE THE THEORETICAL FOUNDATION FOR DATA ANALYSIS, PROBABILITY, AND STATISTICAL MODELING, WHICH ARE CORE COMPONENTS OF DATA SCIENCE WORK.

# IS A SPECIALIZED DATA SCIENCE MAJOR BETTER THAN TRADITIONAL MAJORS LIKE COMPUTER SCIENCE OR STATISTICS?

SPECIALIZED DATA SCIENCE MAJORS ARE DESIGNED SPECIFICALLY TO COVER INTERDISCIPLINARY SKILLS NEEDED IN DATA SCIENCE, INCLUDING PROGRAMMING, STATISTICS, AND DOMAIN KNOWLEDGE. HOWEVER, TRADITIONAL MAJORS LIKE COMPUTER SCIENCE OR STATISTICS REMAIN HIGHLY VALUABLE AND OFTEN PROVIDE GREATER FLEXIBILITY IN CAREER OPTIONS.

# WHAT SKILLS SHOULD STUDENTS FOCUS ON REGARDLESS OF THEIR MAJOR TO EXCEL IN DATA SCIENCE?

STUDENTS SHOULD FOCUS ON DEVELOPING STRONG PROGRAMMING SKILLS (PYTHON, R), STATISTICAL ANALYSIS, MACHINE LEARNING, DATA VISUALIZATION, AND DOMAIN KNOWLEDGE. ADDITIONALLY, GAINING HANDS-ON EXPERIENCE THROUGH PROJECTS, INTERNSHIPS, AND COMPETITIONS IS CRUCIAL FOR EXCELLING IN DATA SCIENCE.

## ADDITIONAL RESOURCES

### 1. Data Science for Beginners: Choosing the Right Major

THIS BOOK PROVIDES AN INTRODUCTORY OVERVIEW OF THE DATA SCIENCE FIELD, OUTLINING THE MOST RELEVANT ACADEMIC MAJORS THAT PREPARE STUDENTS FOR A CAREER IN DATA SCIENCE. IT HIGHLIGHTS KEY SKILLS AND COURSEWORK IN STATISTICS, COMPUTER SCIENCE, AND MATHEMATICS. IDEAL FOR HIGH SCHOOL AND COLLEGE STUDENTS EXPLORING THEIR OPTIONS, THE BOOK OFFERS GUIDANCE ON ALIGNING INTERESTS WITH CAREER GOALS.

### 2. Top College Majors for Data Science Careers

FOCUSING ON THE INTERSECTION OF EDUCATION AND EMPLOYMENT, THIS BOOK ANALYZES VARIOUS COLLEGE MAJORS THAT LEAD TO SUCCESSFUL DATA SCIENCE ROLES. IT COMPARES PROGRAMS IN COMPUTER SCIENCE, APPLIED MATHEMATICS, INFORMATION TECHNOLOGY, AND BUSINESS ANALYTICS. READERS WILL GAIN INSIGHT INTO CURRICULUM DIFFERENCES AND INDUSTRY DEMAND FOR GRADUATES.

### 3. MATHEMATICS AND STATISTICS: FOUNDATIONS FOR DATA SCIENCE

THIS TEXT DELVES INTO HOW MATHEMATICS AND STATISTICS SERVE AS THE BACKBONE OF DATA SCIENCE. IT EXPLAINS ESSENTIAL CONCEPTS SUCH AS PROBABILITY, LINEAR ALGEBRA, AND STATISTICAL INFERENCE, AND DISCUSSES ACADEMIC PROGRAMS THAT EMPHASIZE THESE AREAS. THE BOOK IS PARTICULARLY USEFUL FOR STUDENTS CONSIDERING MAJORS THAT BUILD STRONG ANALYTICAL SKILLS.

### 4. COMPUTER SCIENCE AND DATA SCIENCE: A PERFECT MATCH

EXPLORING THE SYNERGY BETWEEN COMPUTER SCIENCE AND DATA SCIENCE, THIS BOOK DETAILS HOW PROGRAMMING, ALGORITHMS, AND SOFTWARE DEVELOPMENT ARE CRUCIAL FOR DATA-DRIVEN PROBLEM SOLVING. IT ADVISES ON CHOOSING COMPUTER SCIENCE MAJORS WITH DATA SCIENCE CONCENTRATIONS OR MINORS. THE BOOK ALSO COVERS EMERGING

### 5. INTERDISCIPLINARY MAJORS FOR ASPIRING DATA SCIENTISTS

HIGHLIGHTING THE GROWING TREND OF INTERDISCIPLINARY STUDIES, THIS BOOK EXAMINES MAJORS THAT COMBINE BUSINESS, SOCIAL SCIENCES, AND TECHNOLOGY TO PREPARE STUDENTS FOR DATA SCIENCE CHALLENGES. IT DISCUSSES PROGRAMS LIKE DATA ANALYTICS, INFORMATION SYSTEMS, AND COMPUTATIONAL SOCIAL SCIENCE. READERS LEARN HOW BLENDING DISCIPLINES CAN ENHANCE THEIR DATA SCIENCE EXPERTISE.

#### 6. Engineering Your Path to Data Science

This book focuses on engineering majors such as software engineering, electrical engineering, and industrial engineering that provide strong foundations for data science careers. It outlines relevant coursework and projects that develop technical proficiency and analytical thinking. The book also addresses how engineers can transition into data science roles.

### 7. Business Analytics and Data Science: A Practical Guide

TARGETING STUDENTS INTERESTED IN THE BUSINESS APPLICATIONS OF DATA SCIENCE, THIS BOOK COVERS MAJORS IN BUSINESS ANALYTICS, FINANCE, AND MARKETING ANALYTICS. IT EXPLAINS HOW THESE PROGRAMS TEACH DATA-DRIVEN DECISION-MAKING AND PREDICTIVE MODELING. THE BOOK ALSO OFFERS ADVICE ON INTERNSHIPS AND CERTIFICATIONS TO ENHANCE EMPLOYABILITY.

### 8. Data Science Education: Curriculum and Career Insights

This comprehensive guide reviews the curriculum structures of popular data science programs across universities. It includes advice on selecting majors, minors, and elective courses to build a robust skill set. The book also features interviews with professionals who discuss how their academic backgrounds influenced their careers.

### 9. CHOOSING THE BEST MAJOR FOR A DATA SCIENTIST'S FUTURE

A STRATEGIC GUIDE FOR STUDENTS AND EDUCATORS, THIS BOOK HELPS READERS ASSESS THEIR STRENGTHS AND INTERESTS TO PICK THE BEST MAJOR FOR DATA SCIENCE. IT COVERS TRADITIONAL AND EMERGING ACADEMIC PATHS, EVALUATING FACTORS LIKE JOB MARKET TRENDS, SALARY PROSPECTS, AND SKILL REQUIREMENTS. THE BOOK AIMS TO EMPOWER INFORMED DECISIONS FOR A SUCCESSFUL DATA SCIENCE CAREER.

# **Best Majors For Data Science**

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best majors for 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.

best majors for data science: Essentials of Data Science and Analytics Amar Sahay, 2021-07-06 Data science and analytics have emerged as the most desired fields in driving business decisions. Using the techniques and methods of data science, decision makers can uncover hidden patterns in their data, develop algorithms and models that help improve processes and make key business decisions. Data science is a data driven decision making approach that uses several different areas and disciplines with a purpose of extracting insights and knowledge from structured and unstructured data. The algorithms and models of data science along with machine learning and predictive modeling are widely used in solving business problems and predicting future outcomes. This book combines the key concepts of data science and analytics to help you gain a practical understanding of these fields. The four different sections of the book are divided into chapters that explain the core of data science. Given the booming interest in data science, this book is timely and informative.

best majors for data science: Build a Career in Data Science Emily Robinson, Jacqueline Nolis, 2020-03-24 Summary You are going to need more than technical knowledge to succeed as a data scientist. Build a Career in Data Science teaches you what school leaves out, from how to land your first job to the lifecycle of a data science project, and even how to become a manager. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology What are the keys to a data scientist's long-term success? Blending your technical know-how with the right "soft skills" turns out to be a central ingredient of a rewarding career. About the book Build a Career in Data Science is your guide to landing your first data science job and developing into a valued senior employee. By following clear and simple instructions, you'll learn to craft an amazing resume and ace your interviews. In this demanding, rapidly changing field, it can be challenging to keep projects on track, adapt to company needs, and manage tricky stakeholders. You'll love the insights on how to handle expectations, deal with failures, and plan your career path in the stories from seasoned data scientists included in the book. What's inside Creating a portfolio of data science projects Assessing and negotiating an offer Leaving gracefully and moving up the ladder Interviews with professional data scientists About the reader For readers who want to begin or advance a data science career. About the author Emily Robinson is a data scientist at Warby Parker. Jacqueline Nolis is a data science consultant and mentor. Table of Contents: PART 1 - GETTING STARTED WITH DATA SCIENCE 1. What is data science? 2. Data science companies 3. Getting the skills 4. Building a portfolio PART 2 - FINDING YOUR DATA SCIENCE JOB 5. The search: Identifying the right job for you 6. The application: Résumés and cover letters 7. The interview: What to expect and how to handle it 8. The offer: Knowing what to accept PART 3 - SETTLING INTO DATA SCIENCE 9. The first months on the job 10. Making an effective analysis 11. Deploying a model into production 12. Working with stakeholders PART 4 - GROWING IN YOUR DATA SCIENCE ROLE 13. When your data science project fails 14. Joining the data science community 15. Leaving your job gracefully 16. Moving up the ladder

**best majors for data science:** The Sage Handbook of Data and Society Tommaso Venturini, Amelia Acker, Jean-Christophe Plantin, Tone Walford, 2024-12-04 The Sage Handbook of Data and

Society provides a comprehensive exploration of the impact of data on society. Addressing urgent research questions in this rapidly evolving field and offering a balanced mix of introductory insights and advanced analyses, this resource offers a nuanced understanding of critical data studies and their relevance to contemporary society. Through detailed examinations of specific issues, cases, concepts, and methodologies, the handbook fosters a critical proximity to the entanglement of social dynamics and their data doubles. Organized into seven sections, the handbook covers a diverse range of topics, including data infrastructures, digital labor, power dynamics, environmental challenges, bodily experiences, scientific methodologies, and disciplinary intersections. Each section offers a broad examination of critical issues, highlighting interdisciplinary scholarship and presenting fresh perspectives on the intricate relationship between data and societal structures. Featuring contributions from scholars representing various disciplines and global perspectives, The Sage Handbook of Data and Society is an invaluable resource for scholars, researchers, students, and practitioners. By encouraging critical engagement with the profound impacts of datafication, this handbook equips readers with the necessary tools to navigate the complexities of the digital age and comprehend its implications for contemporary society. Section 1: Infrastructures of Data Section 2: Labor of Data Section 3: Power and Struggles of Data Section 4: Data and Crises of Nature Section 5: Data and Bodies Section 6: The Sciences of Data Section 7: Disciplines of Data

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best majors for data science: The Best 389 Colleges, 2024 The Princeton Review, Robert Franek, David Soto, Stephen Koch, Aaron Riccio, Laura Rose, 2023-08-15 NO ONE KNOWS COLLEGES LIKE THE PRINCETON REVIEW! This comprehensive guide to the nation's best colleges provides in-depth profiles on schools, best-of lists by interest, and tons of helpful student-driven details that will help you or your student choose their best-fit colleges! The Princeton Review's college rankings started in 1992 with surveys from 30,000 students. Over 30 years and more than a million student surveys later, we stand by our claim that there is no single "best" college, only the best college for you... and that this is the book that will help you find it! STRAIGHT FROM STUDENTS TO YOU · 389 in-depth school profiles based on candid feedback from 165,000 students, covering academics, administration, campus life, and financial aid · Insights on unique college character, social scene, and more · Direct guotes from students about their school's professors, campus culture, career services, and more RANKING LISTS & RATINGS SCORES · Lists of the top 25 colleges in 50 categories based on students' opinions of academics, campus life, facilities, and much more · Ratings for every school on Financial Aid, Selectivity, and Quality of Life DETAILED ADMISSIONS INFORMATION · The Inside Word on competitive applications, test scores, tuition, and average indebtedness · Comprehensive information on selectivity, freshman profiles, and application deadlines at each school Plus! Free access to 2 full-length practice tests online (1 SAT and 1 ACT) to help you prep for the important admissions-exams part of your admissions journey.

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