



## Data Science

College of Arts and Sciences  
[www.aus.edu/cas](http://www.aus.edu/cas)



Data science is the science of turning raw and complex data into meaningful insights that help solve real-world problems. By using mathematics, statistics, computer programming and critical thinking, data scientists analyze large data to make predictions and guide important decisions.

Data science is one of the most powerful and exciting fields, offering endless opportunities for those looking for a career that combines technology with creativity and problem-solving.



### Possible Career Options

- Data Scientist
- Data Analyst
- AI Researcher
- Data Engineer
- Software Developer
- Machine Learning Engineer
- Quantitative Analyst
- AI Product Manager



## Possible Employers

- Tech Companies
- Financial Firms
- Healthcare Organizations
- Consulting Firms
- E-Commerce and Retail Companies
- Universities and Research Institutes
- Public Sector and Government Entities



## Skills Required

- Interest in data science, artificial intelligence and machine learning
- Ability to organize, analyze, understand and interpret numerical data
- Ability to think analytically and scientifically
- Ability to solve problems
- Ability to use logic and scientific thinking to deal with different types of problems
- Ability to communicate and work well with people



## Personal Attributes

- Strong analytical and logical thinking skills
- A passion for solving complex problems
- Attention to detail
- Clear communication skills
- Collaborative mindset and ability to work in teams
- Adaptability to fast-evolving technologies



## Ways to Get Experience

- Doing an internship
- Attending scientific lectures, workshops or conventions
- Working part-time at a school or university data science department
- Participating in data science competitions
- Joining data science or coding clubs
- Earning certifications or micro credentials online through platforms such as Google Data Analytics