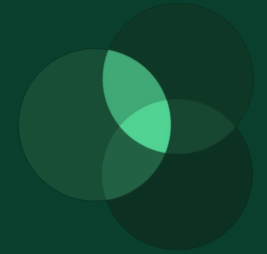


## MAJOR IN DATA SCIENCE

COLLEGE OF NATURAL SCIENCE  
 COMPUTATIONAL MATHEMATICS, SCIENCE AND ENGINEERING (CMSE)  
 STATISTICS (STT)  
 COMPUTER SCIENCE ENGINEERING (CSE)  
<http://cmse.msu.edu/>



### STUDENTS WHO COMPLETE AN MSU BACHELOR'S OF SCIENCE IN DATA SCIENCE WILL BE ABLE TO:

- Apply data science to solve real-world problems
- Demonstrate critical thinking and innovation skills in the design of data science techniques as applied to data curation, analysis, algorithm development, descriptive and predictive modeling, visualization, and decision making
- Communicate and collaborate in a variety of professional contexts
- Understand the human and ethical implications of data science and integrate that knowledge into the design and execution of their work



### CAREER OPTIONS

A bachelor's degree in Data Science will prepare students for future careers as data scientists, machine learning engineers, and quantitative scientists. In 2019, according to Indeed.com, machine learning engineer and data scientist are among the top 25 jobs and have had immense increases in the number of postings and base salaries.

Indeed's best jobs of 2019			
Job title	% growth in # of postings, 2015-2018	Average base salary	Job title's # of postings per 1 million total jobs, 2018
Data Scientist	78%	\$131,389	755
Machine Learning Engineer	344%	\$146,085	179
Agile Coach	86%	\$161,377	60
Senior Product Designer	119%	\$123,759	59
Computer Vision Engineer	116%	\$158,303	38
Senior Financial Consultant	66%	\$115,000	23

The Best Jobs in the U.S.: 2019, Indeed.com, accessed 12/2019

### COURSE WORK INCLUDES:

- CMSE 201 & 202 Computational Modeling
- STT 380 Probability and Stats for Data Science
- CMSE 381 Fundamentals of Data Science Methods
- CMSE 382 Optimization Methods in Data Science
- CSE 331 Algorithms and Data Structures
- CSE 404 Intro to Machine Learning
- CSE 482 Big Data Analysis



[cmse.msu.edu](http://cmse.msu.edu)

If you have questions about this major, contact :  
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