

# BACHELORS DATA SCIENCE

## TOP INDUSTRIES

1. Software & Computer Services
2. Financials
3. Retail
4. Consulting
5. Education/Academia

## SAMPLE JOB TITLES

- Actuarial Analyst
- AI Consulting Analyst
- Big Data Engineer
- Business Analyst
- Cloud Developer
- Data Architect
- Investment Analyst
- Machine Learning Engineer
- Predictive Modeler
- Software Developer
- Software Engineer
- Strategy Analyst
- Test Engineer

## TOP HIRING COMPANIES

amazon



accenture

CapitalOne

## SAMPLE HIRING COMPANIES

- 3M
- 84.51 Degrees
- Alfa Financial
- Auto-Owners Insurance
- Barclays
- Bloomberg
- BCSM Michigan
- Booz Allen Hamilton
- Bosch
- Concept Reply
- Cummins
- Discover
- DraftKings
- EGEN
- Epic
- Evoke
- ExtraHop
- Fidelity Investments
- Ford Motor Co.
- Hulu
- IBM
- IMC Trading
- Imprint
- Janssen
- KPMG
- Liberty Reach
- Lingraphica
- MIT
- Microsoft
- Milliman
- MITRE
- Molson Coors
- Nike
- Northwestern Mutual
- NVIDIA
- Optilogic
- Oracle
- Pearson
- Petronas
- Relativity
- Shopify
- SkylIT
- Tesla
- U.S. Defense Intelligence
- UnitedHealth Group
- Walmart
- Workit Health
- Zoom

## FULL TIME ANNUAL SALARY

Average: \$105,562

Min	Median	Max
\$35,360	\$115,000	\$148,000

## INTERN MONTHLY SALARY

Average: \$6,179

Min	Median	Max
\$2,600	\$5,547	\$10,400

Industry, Company, and Salary Data are from 2021-2022. Job Titles are from 2020-2022.  
Visit [career.engin.umich.edu/career/salary-info](https://career.engin.umich.edu/career/salary-info) for more comprehensive data.

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## SAMPLE ELEVATOR PITCH

Hi, my names is [NAME] and I am currently a [year in school] studying data science at the University of Michigan.

What really excites me about data science is how it operates at the cross-roads between statistics, computer science, and business. I have enjoyed helping to bridge the communication gap between these disciplines through my involvement in campus activities such as [INSERT EXAMPLES].

What interested me about your position is that I see it as a way to continue the growth of not only my technical skills, but also my communications skills and I would love for you to tell me more about it.

## SAMPLE IMPACT STATEMENT

**Before** - Created an interface designed to allow for easier assessment of medical problems

**After** - Utilized consumer data to develop a symptom evaluator for doctors and patients allowing for faster and more reliable diagnoses

## KEY COURSES

**EECS 281** - Data Structures & Algorithms; required for almost all upper-level EECS courses; intro to algorithm analysis and O-notation; several programming assignments

**STATS 412** - Intro to Probability & Statistics; first stats course and required for the major

**EECS 445 / STATS 415** - Machine Learning / Data Mining; teaches modeling techniques and combines both computer science and statistics skills

**EECS/STATS 400 level classes** - Allows you to focus on further statistical or computer science development

## KEY SKILLS

**Python** - coding language

**R** - coding language predominantly used in the statistical world

**SQL** - coding language for DBMS's

**Data Visualization Tools** (Tableau, D3, Qlikview, Microsoft Power BI, Datawrapper, Plotly, etc.)

## SAMPLE EXTRACURRICULARS

**AborHacks**

**Code-M**

**Eta Kappa Nu** - Honor Society

**Michigan Hackers**

**Institute for Electrical & Electronics Engineers (IEEE)**

**Girls in EECS (GEECS)**

**Student Teams** - MSAIL, A2 Data Drive, MAAV, MDST, Baja Racing, MUGSS, Electric Racing, SPARK, MHACKS

