

# Casey Ray

## Data Scientist

Amherst, MA - Email me on Indeed: [indeed.com/r/Casey-Ray/503e06bf4948db4f](https://www.indeed.com/r/Casey-Ray/503e06bf4948db4f)

Experienced data scientist and internal consultant looking for a new place to use statistical analyses and modeling techniques to improve processes and innovate on new solutions.

Willing to relocate to: RI - MA

Authorized to work in the US for any employer

### WORK EXPERIENCE

#### Data Scientist

MassMutual Financial Group - Amherst, MA - 2014 to Present

Internal consultant to Massmutual and its subsidiaries. Consulting across several areas of the business, particularly with predictive modeling and interactive data visualization.

Detailed achievements:

A primary contributor to an Asset Retention project. Retained another \$90 million of assets. Estimated annual value of over \$400 million.

Helped conduct an observational study of prescription drug history relationship to mortality.

Designed and implemented sales and distribution reporting interactive visualization.

Designed and implemented a parallelized Twitter crawler.

Used over 300 million tweets to develop a sentiment analysis model.

#### Business Analytics Consultant

MassMutual Financial Group - February 2014 to August 2014

Springfield, MA. Internal business consultant facilitating understanding and promoting action between internal data science consultants and business stakeholders, or subsidiary brands.

Detailed achievements:

Consulted on investment and underwriting projects.

Liaison between MassMutual's real estate team and external firm IDEO for the Society of Grownups.

Consulted on brand and customer experience for Society of Grownups.

#### Languages

Python 7 yrs experience NumPy, SciPy, Pandas, SciKitLearn, Flask.

R 2 years experience data.tables, dplyR, ggplot, xgboost, randomforest, lme4

Javascript 2 years experience

d3, jquery, crossfilter, dc.js, c3.js

SQL 2 years experience psql, vsql, MSsql

### EDUCATION

#### Bachelor of Arts in Economics

University of Connecticut - Storrs, CT

2011 to 2013

## ADDITIONAL INFORMATION

### Computer skills

Interactive Web hosting with python flask, Big Data HDFS, HBASE, PySpark

Visualization javascript powered interaction.

Predictive Modeling with Python and R Databases Postgres, Vertica, noSql - Mon-

Analytics goDB

category 3 XXX, YYY, ZZZ category 6 XXX, YYY, ZZZ

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