Downloaded from <https://www.velvetjobs.com/job-descriptions/principal-data-scientist>

# Example of Principal Data Scientist Job Description

Our company is growing rapidly and is hiring for a principal data scientist. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

## Responsibilities for principal data scientist

* Adapting and enhancing machine learning techniques based on physical intuition about the domain
* Design sampling methodology, prepare data, including data cleaning, univariate analysis, missing value imputation, , identify appropriate analytic and statistical methodology, develop predictive models and document process and results
* Lead projects both as a principal investigator and project manager, responsible for meeting project requirements on schedule and on budget
* Coordinate and lead efforts to innovate by deriving insights from heterogeneous sets of data generated by our suite of Aerospace products
* Support and mentor data scientists
* You like Big Data, and you cannot lie
* Work directly with application teams/partners (internal clients such as Xbox, Skype, Office) to understand their offerings/domain and help them become successful with data so they can run controlled experiments (a/b testing)
* Understand the data generated by experiments, and producing actionable, trustworthy conclusions from them
* Apply data analysis, data mining and data processing to present data clearly and develop experiments (ab testing)
* Work with development team to build tools for data logging and repeatable data tasks tol accelerate and automate data scientist duties

## Qualifications for principal data scientist

* Familiarity and/or contributions with open source software stack
* Ability to understand and translate business and product questions into analytics projects
* A MS degree (Ph.D
* Working knowledge and understanding of medical coding, including ICD, CPT, DRG
* Effective decision making skills -- experience negotiating and balancing decisions and priorities across needs of several functional departments and willingness to make tough decisions
* Must have end-end hands-on experience in delivering & implementing Big data analytics in production