Summer 2014 Internship Project

Compare Short Term and Long Term Credit Card Charge-off Risk Predictive Models

Yuanhui Dong
September 8, 2014
Internship Employer—Capital One Bank

- Fortune 500 company, one of the 10 largest banks by deposits in the country
- Headquartered in McLean, Virginia
- Analyst internship program hired over 100 interns
  include Statistician, Business Analyst and Data Analyst
- Statistician Intern projects in Credit Card, Bank, Home Loan and Auto Finance Divisions
How I found this opportunity?

- LinkedIn Connection
- SJSU Career Job Fair
- Dr. Bremer’s email
- InternMatch
- Indeed
- Monster
- Glassdoor
How to start looking for internship?

- Know Yourself, Know your Target
  
  *Yourself: interest, skills, experience*
  
  *Target: industry, position, location*

- Prepare few different versions of resume tailored for your targets
- Prepare Behavioral and Technical interview questions
- Practice interview session with career center’s consultant
What is my internship project?

- US Card Division Subprime Team
- Compare two credit card charge-off risk predictive models—ST model vs. LT model
What are the hypothesis?

Differences are from:

- Target Variable
  12 month charge-off vs. 24 month charge-off risk (0-good, did not charge off; 1-bad, charged off)

- Input Variable

- Build Sample
What I learned from this project?

- Knowledge:
  - Lift Chart
  - Somers’D

- Software:
  - Teradata SQL (data extract and raw processing)
  - SAS EG (statistical analysis)
  - TreeNet (model rebuild)
Challenges

- New terminologies
- New software
- Time limit
- Project planning and communication
Intern Activities

- Executive speaker every week
- First week training for bank economics knowledge, effective communication, Teradata SQL, SAS EG, TreeNet
- On job training by an assigned intern buddy and a supervisor
- Volunteer activity at FoodBank
- Intern retreat at a historic holiday resort
- National baseball game night