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U.S. Citizen

**Prashant Vaidyanathan**

**Education**

**Drexel University, Philadelphia, PA**

M.S. Biostatistics

Used SAS/BASE, SAS/STAT, and SAS/GRAPH in coursework and final data analysis project: *Predicting Survival on Titanic Using Machine Learning Methods*

**Denison University, Granville , OH**

B.S. Mathematics

**Experience**

**Pharmacy Metrician, Humana, Louisville, KY**

* Analyzed copay structure for on-exchange members.
* Used SAS Enterprise Guide to analyze impact of formulary changes of various drugs.
* Used customer segmentation to examine which drugs to sell.
* Used customer segmentation to identify high risk members who would most benefit from specialty drugs.

**Consultant , Booz Allen Hamilton , Aberdeen, MD**

September 2011 - September 2014

August 2006 - May 2010

September 2014-Present

October 2012 – March 2014

* Simplified ordinal regression model using R for toxicological data to provide dose estimates for chemical agents. This involved extracting Excel csv files and converting them into data frames and using the probit library to develop the models.
* Implemented a new experimental design for dose finding studies .
* Used change point methods to analyze toxicological data in order to determine the effects of biological agents on lab animals .
* Implemented a cost model for the Critical Reagents Program ( CRP) using Access and Excel to enable clients to plan demand and supply.
* Used customer segmentation to determine the most likely buyers of various chemical and biological detectors.
* Collected and analyzed data for the Edgewood Chemical Biological Center market survey program to provide options
* for chemical detection systems.
* Presented results of statistical analyses to key stakeholders from ECBC and DoD.
* **Business Analytics Intern, Actelion Pharmaceuticals, South San Francisco , CA** June 2012 – August 2012
* Developed pricing models for new drugs.
* Analyzed market analyst reports for Pulmonary Arterial Hypertension (PAH) drugs .
* Used customer segmentation to identify late stage patients with PAH who would most benefit from the new drugs.
* P resented analyses and insights to CEO and key stakeholders .

**Research Assistant , Drexel University , Philadelphia, PA** April 2012 – June 2012

* Responsible for pre-processing and cleaning Cancer Registry Data using SAS/BASE and SAS/MACRO.

**Risk Management Intern , Indus Capital Mangement LLC , Landenberg , PA** Summers 2007-2011

* Developed information systems framework for coupling daily price feeds for stocks and futures into a proprietary trading system.
* E xecuted detailed statistical and performance analysis of Indus intraday trading models.
* P rovided key ideas on application of information theory to statistical analysis of complex, multi-variate data typical of financial data environments.
* xUsed R to study the futures market through a series of designed experiments aimed at performance analysis of multi-frequency trading functions.
* E xtended Indus trading framework to the study of stock portfolios.
* Used R to analyze distribution of stock returns.

**Skills**

**Languages: Software:**

**Operating Systems:**

**Databases/Appliances:**

Java, VBA

SAS, MatLab, Mathematica, SPSS, R, LaTeX, Access, Word, Excel,Minitab, PowerPoint

Windows ,OSX, Unix

MySQL, Oracle

**Statistical Skills** : Proficient with Machine Learning, Multivariate Regression Models, Generalized Linear Models, Logistic Regression Models, Stationary and Non stationary Time Series Analysis, Non parametric Models, Mixed Models , Analysis of Variance, Analysis of Covariance and Survival Models.

**Actuarial Skills :** Current and ongoing actuarial credentials provide strong foundation for risk management and analysis across multiple domains including Financial Services , Healthcare and Life Sciences. Passed SOA Actuarial Exam 1/P (November, 2010), SOA Actuarial Exam 2/FM (April 2012).

**Subject Matter Expertise:** Data Mining, Statistical Analysis, Business Intelligence, Predictive Analytics