

Rungtham(Ben) Rodrawangpai

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Education

DePaul University | College of Computing & Digital Media

Sep 2014 – Dec 2016

Master of Science in Predictive Analytics | GPA 3.98

(Expected)

Coursework: Regression; Statistic and Data Analysis; Mining Big Data; Time Series; Data Visualization; Data Mining; R, Python, SQL, Tableau, Hadoop, SAS and MATLAB

King Mongkut's Institute of Technology Ladkrabang, Thailand

May 2008 – May 2011

Bachelor of Engineering in Computer Engineer

Work Experience

Underwriters Laboratories Inc. – Data Analytics Intern

Northbrook, IL

Jun 2016 – Present

- Perform data cleaning and normalization to prepare data sets for analysis and modeling.
- Conduct mathematical, statistical and data quality analyses in support of specific projects. These include multivariate regression and logistic regression.
- Development of graphs and visualizations in support of academic and business reports.
- Perform Text Mining Analysis. These include preprocessing/stemming, creating a document term matrix and finding the relationship between terms.

DePaul University – IT and Software Support

Chicago, IL

Jan 2015 – May 2016

- Advising and resolving hardware and software related issues for students' personal computers.

Thomson Reuters - Associate Support Consultant

Bangkok, Thailand

Jan 2012 – Sep 2012

- Investigated and troubleshooting products problem and provided technical support.

Academic Projects

Time Series Analysis and Forecasting

Winter 2016

*Developed predictive models to **forecast volatility** in MSFT stock and capture the price fluctuations of the daily closing prices. The models were run in R: AR(0) **EGARCH**(1,1) with t-distribution*

Advanced Data Mining (The Lung Image Database, National Cancer Institute)

Winter 2016

Used Boosting and Bagging ensemble to improve classification algorithm performance. The models were run in R Studio Server/Caret package.

Web Data Mining, (Webpage classification, StumbleUpon.com)

Fall 2015

*Built a Classifier to Categorize Webpages. Used Word Cloud, Decision Tree, Navies Bayes and Random Forest modeling techniques. The models were run in **Python Numpy, Pandas and Scikit-learn package** for analysis.*

Data Visualization, (Retail store dataset from Dunnhumby)

Fall 2015

*Researched on product associations and customer behaviors. Used **Tableau, R and D3** to visualize the data, such as Heat Map, Network Graph, Time Series and Chord Diagram.*

Advanced Data Analysis, (The Chicago Department of Public Health)

Spring 2015

*Predicted when and where different species of mosquitos will test positive for West Nile Virus throughout the Chicago area. The models were run in R: PCA + K-means **Clustering** and Logistic **Regression**.*

Data Regression Analysis, (US Census and US LEMAS survey)

Winter 2015

Developed an effective regression model to study the effect of variables on the unemployment rate and predict the unemployment rate.

Technical Skills & Certificates

Programming: R, Python, SQL, SAS, PHP, HTML, CSS, C/C++.

Software Applications: R Studio Desktop/ Server on Amazon EC2, Hadoop, SPSS, Tableau, SQL Developer, D3

Analytics: Supervised/Unsupervised learning – Multivariate Linear/Logistic Regression, Principle Component Analysis, Linear Dimension Analysis, K-nearest network, Decision Tree, Naive Bayes, Clustering and Time Series Analysis

Certificates: Coursera Verified Certificates in R Programming, The Data Scientist's Toolbox and Machine Learning.

Activities and Volunteers

- Worked with Habitat for Humanity on a house building project. In the end, this house will provide a family in need a safe and secure place to live in Lake County, Illinois.
- Volunteered for Disaster Recovery in Bangkok, Thailand.