

NagaShrikanth Ammanabrolu

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EDUCATION

MS in Industrial Engineering: University of Illinois at Chicago (GPA: 3.5/4.0) Dec 2016

BE in Electronics Engineering: University of Mumbai (GPA: 59%/100%) May 2015

PROJECTS

Movie Recommender System Data Analysis (Movie Lens)

- Analyzed MovieLens' dataset of 100,000 ratings arising from 943 users and 1682 movies to develop and evaluate a Recommender system using collaborative filtering, k-Nearest Neighbors, and Matrix Factorization methods. **[Tools: Rapidminer, SQL, Excel]**

Market Segmentation Data Analysis (CRISA – A leading market research agency)

- Analyzed 30 product categories and about 70 brands across 50,000 households in 105 cities. Developed clustering models to deploy promotion budgets and customer reward systems effectively and thereby increase brand loyalty. **[Tools: Rapidminer, Excel]**

Target Marketing – Fundraising Data Analysis (UCI KDD Cup 1998)

- Analyzed a national veteran's organization's database of over 13 million donors (10,000 donors after sampling) to develop a classification model that can effectively capture donors so that the expected net profit is maximized. **[Tools: Rapidminer, Excel]**

Forecasting Inflation Rate in the United States using Time Series Analysis

- Developed a forecasting model using Time Series Analysis and ARMA Modeling to forecast Inflation rate in the United States. Used these models to forecast the Inflation rate and how CPI influences the inflation rate. **[Tools: R, SQL, Excel, Minitab]**

Stock Market Risk Analysis using Python

- Developed a method using Bootstrap models and the Monte-Carlo Simulation method to analyze the risks associated with investing in technology company stocks like Apple, Amazon, Google, Microsoft and Tesla Motors. **[Tools: Python]**

TECHNICAL SKILLS

Basics: Hadoop & MapReduce, Apache Spark, SPSS, SAS, Tableau, D3.js, C#, C++, PHP

Advanced: Python (Pandas, NumPy, Matplotlib, Scikit-learn, etc.), R Programming, Rapidminer, SQL (PostgreSQL), Julia programming, OpenSolver, HTML5/CSS3, jQuery, JavaScript, Time Series Analysis, Forecasting, Predictive and Exploratory Analytics, Machine Learning algorithms

RELEVANT COURSEWORK

Data Mining for Business, Time Series Analysis & Forecasting, Operations Research I & II, Intro to Operations Management, Supply Chain Management, Ergonomics & Human Factors

ACCOMPLISHMENTS

- Successfully presented and published a Technical Paper at an International Conference on 'Gesture to Voice Command Glove for the Disabled'
- Named 'Young Technology Blogger to look out for in 2012' by PRNewswire
- Mentioned by The New York Times, Kissmetrics and AllTopStories for published articles
- Competed at HackIllinois 2016 and built a Data-Driven, Web-based Travel application