

SUNG PIL MOON

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SUMMARY

- Aspiring Data Scientist with experience in software development for academic, practical, and research projects
- Seeking for a data scientist position, where I can utilize my skills to effectively contribute to your team
- Proficient in programming, machine learning, problem solving, data analysis and data visualization

SKILLS

- **Programming:** Python (scikit-learn, numpy, scipy, pandas, matplotlib, seaborn, etc.), R (data manipulation & visualization: Shiny, ggplot, dplyr, knitr, caret, rpart, etc.), SQL, Hadoop (MapReduce, Hive), GitHub, Java, Javascript, HTML5 / CSS, Android Mobile, jQuery Mobile, Adobe Flex web / mobile programming (Actionscript)
- **Statistics and Machine Learning:** Linear and Logistic regression, Generalized linear models, Feature selection & engineering, K-Nearest Neighbors, Principal Component Analysis (PCA), Lasso & Ridge Regression, K-means clustering, Hierarchical clustering, Classification and Regression trees, Decision trees, Random forests, Support vector machines, Associations Rule, Naïve Bayes, Gradient Boosting Machines (GBM), XGBoost, Neural Networks, Time series models

EXPERIENCE

- Data Scientist Fellow, NYC Data Science Academy, New York, NY** Jan. - Mar. 2016
- **DataScienceJobAnalyzer project:** implemented the interactive cluster and sentiment analyses of web-scraped job data from indeed.com and dice.com using Python, R and Shiny Dashboard
 - **DataScientistSalaryComparator project:** implemented interactive data scientist salary comparator against other eight professions in the US using R and Shiny Dashboard (based on 167,278 prevailing wage data from US Department of Labor)
 - **Kaggle BNP Paribas Cardif competition project:** participated in the competition to predict category of user claims based on features available from a large data (30~40% missing and anonymized) in the early process using supervised learning methods.
 - **DataSci4Good project:** implemented the improved visualization and embedded recommendations component to the Wise shiny app designed for young people to develop financial literacy utilizing Shiny, Python and several machine learning methods
- Research Assistant, School of Informatics and Computing, Indiana University, Indianapolis, IN** Sept. 2009 - May 2015
- **Persuasive mobile infoVis app development** Dec.2012 – Dec.2014
Developed a mobile application for sustainable motivation in a context of running (PhD dissertation topic) using elements of information visualization, gamification and social grouping for obese people to change sedentary lifestyle to more active.
 - **Shared decision space infoVis tool for planning and analysis of large healthcare data** Sep.2012 – Dec.2013
Developed a decision support tool providing shared decision space information visualization of large and complex patient data sets for intelligence analysts, health care professionals and patients. Funded by MITRE research corporation (www.mitre.org)
 - **TopHealthTrends infoVis tool development** Nov.2011 – June 2012
Developed an information Visualization tool showing local health-related Twitter trends to aid jobs of health-related experts
 - **Bridging the Situation Space to Decision Space Gap** Oct.2009 – Sep.2011
Developed a prototypical decision-making simulator to aid first emergency responder providing visualization of multiple decision options. Funded by MITRE research corporation (www.mitre.org)
- Research and Teaching Assistant, Carnegie Mellon, ISRI, Pittsburgh, PA** Nov.2006 – May 2007
- Led the “Robots to the Rescue” class and offered a guidance of introduction to robotics and programming to undergrad.
 - Developed an interactive simulator with Microsoft Robotics Studio to communicate between four-wheeled robots and simulators

EDUCATION

- Indiana University, School of Informatics and Computing, Indianapolis, IN** May 2015
- *Ph.D.:* Human-Computer Interaction (Overall GPA: 3.95 / 4.00)
- Carnegie Mellon University, School of Computer Science, Pittsburgh, PA** August 2006
- *M.S.:* Information Technology in eBusiness, (Overall GPA: 3.57 / 4.00)
 - Scholarship Recipient: Ministry of Commerce, Industry and Energy of Korea
- Soongsil University, Seoul, KOREA** February 2004
- *B.S.:* Computer Science (Overall GPA: 3.74 / 4.30)

PATENT

System and Method for Producing Video Map

- Application No: US20100077307 A1 (published on March 25, 2010)