

Taeuk Kim

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Projects

Effects of Player Performance on Salary

Scraped decades of NBA stats from multiple sites with Selenium and BeautifulSoup. Selected a subset of features using recursive features elimination. Built a linear regression model to predict future salaries based on season performance, which allows teams and managers to better allocate resources.

Predicting Startup Success

Built a classification model to accurately identify whether start-ups are successful. Implemented random forest algorithm in order to handle missing information due to the nature of startups and maintain high precision rate of 90%.

Exploring Differences in Children's Knowledge Organization

Developed a framework for clustering children based on organization of different items. Worked with psychology department to properly identify similarity in organization pattern amongst children using combination of Principal Component Analysis with K-means. This project highlights the fact that previous research may have underestimated the abilities of younger children to process information.

Yelp Restaurant Recommender

Illustrated different aspects of user restaurant experience using Non-Negative Matrix Factorization. Processed 2 million+ reviews to identify key aspects and developed a framework to cluster users. This project provides a framework for a new method to improve mainstream restaurant recommender systems.

Image Based Product Recommender

Developed a similarity search method for matching visually similar products across categories. Employed convolutional neural network (VGG16) to learn subtle design elements of furnitures. Built a recommender system for the major living room furniture items which captures intangible design features that human eye cannot detect.

Experience

Metis

New York, NY

Data Science Fellow

Sept. 2020 to Current

- Completed a 12-week immersive data science bootcamp with a focus on Python programming, data engineering, machine learning, and communication
- Designed and built end-to-end projects to utilize data science in consumer market scenarios

Samsung Ventures America

Menlo Park, CA

Investment Intern

June 2019 to Aug. 2019

- Generated investor-friendly analysis report by examining markets, competitors, and Samsung's own investments, presenting detailed insights to team of 12 investors and VP to identify areas meeting Samsung's strategic needs
- Consulted a successful \$2M investment recommendation to the board of directors for a E-Sports startup
- Utilized python to clean up Samsung's internal investment database and calculated IRR

Biomedical Engineering Lab, Carnegie Mellon University

Pittsburgh, PA

Undergraduate Research Assistant

Jan. 2018 to May 2018

- Assisted with modeling and evaluated efficacy of 4 different types of surface coating method for artificial lung
- Conducted various randomized procedures and compared results to experimental rates to assess model accuracy

U.S. 8th Army (KATUSA)

Dongducheon, South Korea

Military Police Officer

June 2015 to Mar. 2017

- Directed, coordinated, and oversaw the Military Police Operations as a desk sergeant
- Managed and responsible for over \$50,000 worth of United States Army equipment
- Prepared detailed reports of any incidents and provided follow-up details as required for the Provost Marshall

YG Entertainment

Seoul, South Korea

Marketing Analyst Intern

June 2014 to Aug. 2014

- Implemented cost-effective marketing campaign that leveraged social and offline marketing techniques, targeting specific locations to minimize costs and attain maximum participation
- Performed market research and produced weekly report of current trends in public music consumption
- Collaborated with PR team to manage focus groups and designed fan surveys gathering over 500 data points

Skills

Language and DBMS

Python
SQL
R
LaTeX
SPSS
Spark

Machine Learning and Statistics

Deep Learning
NLP
A/B Testing
Linear/Logistic Regression
ANOVA/ANCOVA

Python Packages

pandas
numpy
sklearn
statsmodel
NLTK
genism
scipy
xgboost
beautifulsoup4
selenium
keras
pyspark
tensorflow

Visualization

Tableau
plotly
seaborn
matplotlib
bokeh
dash

Education

Metis Data Science Bootcamp

Certificate 2020

Carnegie Mellon University

B.S. Economics and Statistics 2020