Hyunjin **Nam**

Data Scientist

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I am a data scientist with a background in statistics, working mainly with Python and R. I specialize in machine learning applications in digital health. By using a statistical approach, I am building a predictive model to help physicians and health professionals in the diagnosing patients. I enjoy machine learning, web programming, and play around with data. Please check more about me below.

Educations

2019 Master of Statistics | Uppsala University
2017 Bachelor of Statistics | University of Seoul
2017 Bachelor of Social Welfare | University of Seoul

Professional Experience

January 2019 – Now

AI Developer | BYON8, Stockholm, Sweden

- Byon8 is a health tech company using artificial intelligence in medical diagnostics. With our product AITOPYA, healthcare professionals are provided with diagnostic suggestions from AI engine to ensure secure diagnoses, recommendations and treatments. Also, we are working for de-centralized health care service, currently in the process of providing several services to developing countries such as Uganda.
- As a part of the AI team in Byon8, I have been responsible for data preprocessing, data mining, and building a predictive model using a wide variety of machine learning models. This has given me the opportunity to step into the industry, have hands-on experience in implementing production machine learning systems, and gain a solid understanding of machine learning theory. During the internship, I wrote my Master's thesis about building a tree-based model that can help diagnose diabetes.

Python R MongoDB

September 2017 – Jun 2019

Digital Ambassador | Svenska Institutet, Stockholm, Sweden

- Studyinsweden is an organization built and maintained by the swedish institute(svenska institutet) and is tasked with promoting Sweden for prospective international students abroad. We provide contents regarding the Swedish higher education system, finding and applying for a programme, searching for scholarships, living as an international student in Sweden and learning Swedish.
- I was part of blog and Instagram team as a digital ambassador, responsible for writing blog posts for the Study in Sweden blog. Also My responsibilities included managing the official instagram @Studyinsweden for posting photos, uploading stories and taking part in Live broadcasts. I also responded to user comments and answer e-mail questions from prospective students.

Marketing

January 2017 – September 2017

Data Analyst Intern | ZipFund, Seoul, Korea

- ZipFund is a BigData and AI Tech startup in real estate. It provides advisory service to financial institutes, apartment automated valuation modeling service allowing banks and lenders use ZipFund's data solution for their mortgage lending process automation.
- My main task was to find meaningful insights that would help people estimate house price. I used SQL to retrieve data and analyzed with R and Tableau. I tested various topics with statistical models. Two main tasks was to visualize how housing prices differ depending on the floor within the apartment and to find a similar price pattern between districts by applying dimension reduction, and to clustering houses sharing similar price variations.

SQL R Tableau

Skills

Programming	Python, R, SAS
Databases	MySQL, MongoDB, PostgreSQL, AWS
Data analysis	TensorFlow, Pandas, Numpy, Matplotlib, Scikit-learn
Web developmen	Vuepress, HTML5, CSS, jQuery
Others	Tableau, Adobe Premiere, Adobe Lightroom, Adobe Photoshop

Projects

Predicting Diabetes Using Tree-based Methods 2019

Uppsala University, Department of Statistics, Independent thesis Advanced level (degree of Master (Two Years)

Download github.com/hyunjin-nam/thesis-diabetes

The aim of this study is to develop a statistical model to predict type 2 diabetes based on the tree-based model. Furthermore, the aim to compare classification with current medical criteria. Decision Tree, Random Forest, Boosting with a XGBoost algorithm is used as a classification method to predict diabetes. The results show XGBoost outperformed the two other models in yielding highest classification rate, with a 84.6 percent test accuracy. Two interesting findings from this paper are : 1) Ensemble methods such as Random forest and boosting can be easily overfitted on training data, but this problem can be solved with correct hyper-parameter tunning. And 2) Tree-based methods such as XGboost and Random Forest can solve variables' multicollinearity problems.

Machine learning | Medical health | R | Python

Music Classification Project 2019

github.com/hyunjin-nam/course-MachineLearning

This project aims to learn statistical machine learning from Uppsala university as a part of course work. The task is to classify a set of 100 songs and predict whether a specific person would like them or not, with the help from a training data set with 500 songs. Random Forest, Boosting, Logistic Regression was applied to the analysis.

R | Machine learning

Hyunjinnam.com 2018 - Present

Check here! github.com/hyunjin-nam/homepage-vuepress

I love learning a new programming language and creating my content. This is the life-time project that I would like to keep as a hobby. I like to create content I enjoy creating contents and communicating with people, whether through conversation, text, photography or code. I wanted to have my webpage where I can post materials and share with others. First, I build the page from scratch using HTML5, CSS and jQuery. And recently renovated using Vuepress and markdown, get to know more about the joy of coding by exploring other's intention in their code and try to adjust it with my purpose of use. Please come and visit my webpage and find more about me!

Vuepress | HTML | CSS | JQuery

Languages

Korean	●●●●●
English	●●●●○
Swedish	●○○○○

References

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