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Yoonsu Park

Technical Skills

Languages: Python, Java, JavaScript, C, C++, HTML5

Frameworks/Library: Tensorflow, Theano, Keras, GraphLab, SFrame, Pandas, Numpy, matplotlib, Scikit-learn

Machine Learning : Deep neural network and Convolutional Neural Network, RNN(Recurrent Neural Network), LSTM(Long Short Term Memory), Q-Learning, Regression, Classification

Other: Project management, Microsoft Consulting Service, MS Windows, MS SQL, MongoDB, Git/GitHub

Project Experience

Street address image recognition - <http://blockchain99.github.io/street-address-image-recognition>

November
2016

- Decoded and recognized the sequences of digits from the natural images of Street View House Numbers through training Convolutional neural networks (CNN) using tensorflow, python
- Coded to prepare image Data, design Convolution Neural Network architecture and optimized the model by parameter tuning
- Enabled to find the housing number of a specific location in a street as a format of continuous multiple digit characters with 94.7% prediction accuracy from test data

Smartcab driving agent - <https://blockchain99.github.io/smartcab> September 2016

- Coded to move agent from start location to destination using enforced learning such as Q-Learning Algorithm using python
- Designed and coded Q-Learning agent using Pygame, game engine provide by Udacity and tuned the parameters such as learning rate, discount factor, exploration-exploitation relation to get optimal result.
- Achieved 97 success to reach the destination out of 100 trials

Customer segments - <https://blockchain99.github.io/customer-segments/> Aug 2016

- Analyzed product spending data collected for customers of a wholesale distributors and coded to identify customer segments hidden in the data using unsupervised learning techniques.
- Found meaningful relationships hidden in their customer base to be deployed in services and products to best meet the demands or needs of customers

Student Intervention - https://blockchain99.github.io/student_intervention/ July 2016

- Implemented the supervised Learning models to predict the likelihood that a given student will pass high school final exam and decide the early intervention
- Simulated decision Trees, SVMs, Neural Networks, grid search, selected the optimal model, GaussianNB, in terms of performance and cost, and SVM tuned gamma 0.1 for 2nd choice.

Samsung Demand Supply Prediction <http://www.samsung.com/us/business/>

December 2008

- Developed with Microsoft SQL BI(Business Intelligence) solution to enable on-demand changes of business management plans and reflect these adjustments on real time basis
- Created Samsung Electronics Business Intelligence System to enhance the demand prediction accuracy for SCM(Supply Chain Management) by more than 20% with Microsoft BI Platform as S/W Architect

Samsung GSBN - <https://v3.samsunggsbn.com/ep/index.do?trayIgnore=Y>

March 2005

- Developed GSBN(Global Samsung Business Network) integrated with the Samsung's Partner company to input purchase forecast to make optimized amount of products to be delivered to their door, seamlessly integrated with ERP and SCM and PRM(Partner Relationship)
- Fast and optimized Business decision through GSBN, which result in cost reduction, business process automation ,participated as S/W Architect and Project Manager

Work Experience

Teraedu, Inc – *S/W developer, CEO*

Seoul, South Korea | November 2012- November 2008

- Designed and developed On-line education application (System Architecture Design, System performance tuning, DB Schema design based on MOODLE, PHP , JavaScript).
- Online education Contents Development for Mathematics and Algorithm, Programming

Microsoft – *S/W Architect, Project Manager*

Seoul, South Korea | July 2008- July 2001

- Project Management, application development, S/W architecture design of IT(Information and Technology) projects for Samsung Electronics, Hyundai Motors, LG Electronics, SK co
- Developed Enterprise Application Integration for web portal system connected with SAP ERP(Enterprise Resource Planning) and SCM(Supply Chain Management) and coded application for Enterprise systems based on MS windows server, MS SQL, BizTalk Server, MS SharePoint.

POSCO ICT Co, Ltd – *R&D Senior Researcher*

Seoul, South Korea | February 2001- March 1999

- Web portal development, middleware design and system architecture design, infrastructure optimization and network architecture upgrade for POSCO.
- Used Platform & Skill : Java, HTML, C, C++, JavaScript, WINDOWS, UNIX, SQL

Hewlett Packard Co. Ltd – *IT Consultant*

Seoul, South Korea | February 1997- January 1996

- Unix consulting/ network architecture design. Infrastructure consulting, UNIX system performance tuning
- Used Platform & Skill : C, C++, UNIX network configuration, server configuration

PHILIPS Co, Ltd – *Developer*

Seoul, South Korea | January 1996- January 1995

- Developer of Multimedia System
- Developed Multimedia Software for PHILIPS CD-I(Compact Disk Interactive)

Education

Udacity - *Machine Learning Nano Degree*

November 2016

University of Washington and offered through **Coursera** - *Machine Learning Nano Degree* - Now 2016

- Certification of courses completed : [Clustering & Retrieval](#), [Classification](#), [Regression](#) , [A Case Study Approach](#)

Graduate School of Sogang University – *MBA*

November 2015

- Completion of International Finance Major

Carnegie Mellon University , Pittsburgh, PA – *Advanced Software Engineering Course*

August 2001

- Completion of *S/W Engineering* course sponsored by Korean government

Pohang University of Science and Technology – *Master's degree of Science*

February 1999

- Major of Computer Information Technology

Seoul National University – *Engineer's Degree of Computer Engineering*

February 1994

Honors and Activities

- Samsung IT Symposium Grand Prize for GSBN project(Team award),
Nominated as a best case of e-logistics in ASEM(Asia Europe Meeting)
as *S/W architect, Project Manager*

October
2004

- Microsoft Excellence Award

July
2003

- Professional sailing skill and experience as a **Yacht Master** accredited by RYA(Royal Yacht Association) in United Kingdom

