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Yoonsu Park

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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

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
- Prepared image data, designed Convolution Neural Network architecture and optimized the model by parameter tuning
- Enabled finding of house number of a specific location on a street as a format of continuous multiple digit characters with 94.7% prediction accuracy from test data

Smartcab driving agent

September 2016

- Coded agent to move 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 and tuned parameters such as learning rate, discount factor, exploration-exploitation relation to get optimal result
- Achieved 97/100 success for reaching destination

Customer segments

August 2016

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

Student Intervention

July 2016

- Implemented the supervised Learning models to predict the likelihood of a student to 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 tuned SVM to set gamma as 0.1.

Supply Demand Prediction

December 2008

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

Samsung GSBN

March 2005

- Developed Global Samsung Business Network integrated with the Samsung's Partners
- Developed purchase forecast system to optimize amount of products to be delivered, and seamlessly integrated with ERP and SCM and Partner Relationship
- Led the project as S/W Architect and Project Manager.

Work Experience

Teraedu, Inc

Seoul, South Korea | November 2008- November 2012

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

Microsoft

Seoul, South Korea | July 2001-July 2008

- Coded application, designed S/W architecture and led projects for Samsung Electronics, Hyundai Motors, LG Electronics, SK co
- Developed Enterprise Application Integration for web portal system connected with SAP ERP and Supply Chain Management
- Coded applications for Enterprise systems based on MS windows server, MS SQL, BizTalk Server and MS SharePoint.

POSCO ICT

Seoul, South Korea | March 1999- February 2001

- Developed web portal, designed the middleware architecture, which was implemented to POSCO
- Coded human resource evaluation system that was incorporated into new evaluation and compensation structure

Hewlett Packard Co. Ltd

Seoul, South Korea | January 1996-February 1997

- Coded Web portal for newspaper to publish news contents.
- Consolidated multiple legacy system with HP Unix server and analyzed network traffic and designed network architecture

PHILIPS Co, Ltd

Seoul, South Korea | January 1995-January 1996

- Developed Multimedia Software for PHILIPS CD-I(Compact Disk Interactive) Education

Education

Udacity - Machine Learning Nanodegree

December 2016

University of Washington and offered through Coursera - Machine Learning Specialization

In progress

Graduate School of Sogang University –Completion of MBA course

November 2014

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

August 2001

Pohang University of Science and Technology – Master of Science, Information Technology

February 1999

Seoul National University – Bachelor of Science , Computer Engineering

February 1994

Honors and Activities

- Awarded 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
- Awarded Microsoft Excellence Award July 2003
- Demonstrated professional sailing skill and earned the certificate of Yachtmaster
accredited by RYA (Royal Yacht Association) in United Kingdom