KYUCHO

Data Scientist
Machine Learning Engineer

🏠 www.qcho1010.com | ⬛ qcho1010 | 🔗 qcho1010 | ✉ qcho1010@gmail.com | 📱 (+1) 636-579-3120

"Nothing is Impossible; We Just Haven't Found the Way Yet. "

Formulating Effective Business Outcome Matrix to Build ML Model and Conveying Insights from Complex Model to Clients is the Key to Succeed in Data World.

PROFESSIONAL EXPERIENCE

Lead Data Scientist at Object Computing Inc (Feb 2019 – Present • 7 mos)
- • Working for Fortune 500 company clients such as Mastercard, Bayer, and Purina and partnering with Google to solve one of the challenging problems
- • Video/Image Analysis, Video/Image Segmentation, Streaming NLP, Time Series Analysis, and Forecasting Analysis

Sr. Data Scientist at Ascension Health (Oct 2017 – Feb 2019 • 1 yr 5 mos)
- • Built A.I. (Not Black Box) System which Provides the Well Explainable and Interpretable Clinical Treatment Solution Using Advance Machine Learning, Optimization Algorithms such as Deep Learning and Evolutionary Computation.
- • Built recommender system for the Sepsis treatment for the optimal treatment while reducing the total direct cost. Resulting estimated total saving of $300mill saving in a year.
- • Built the model to seek high Opioid users to prevent the opioid crisis.

Principal Data Scientist at MIMH (Jan 2017 – Present • 2 yrs 8 mos)
- • Performing Advance Explanatory Analysis to Find the Insight of the HIV Disease Prevention and the Treatment.
- • Working Directly with NIH, NIMH, and Government Funded Projects.

Assistant Data Scientist with Dr. Sharlee Climer (Aug 2015 – Dec 2016 • 1yr 5 mos)
- • Finding Patterns from Alzheimer's Disease using the Gene Expression Data and Protein Level Data.
- • Successfully Found 28 Important Gene Expressions out of 8500 that highly Influential to Alzheimer's Disease.

Assistant Data Scientist with Dr. Wenjie He (Aug 2014 – Dec 2015 • 1yr 5 mos)
- • Developing Automated Theorem Proving Web Platform Using A.I.

SKILL

Language/Library:
- • Python • R • Tensorflow/Keras • Spark • AWS • Google Cloud • BigQuery • BigTable

Area of Expertise:
- • Deep Learning • Ensemble Learning • Transfer Learning • Supervised / Unsupervised Machine Learning
- • Evolutionary Computation • Bayesian Optimization • Data Mining / Munging / Visualization / Interpretation
- • Quantitative Development / Research / Analysis • Statistical Modeling • Time series Forecasting
- • Natural Language Processing • Artificial Intelligence • Linear / Dynamic Programming

EDUCATION

M.S. in Computer Science   **University of Missouri-St. Louis**
- • Stock Price Prediction • Evolutionary Computation

B.S. in Computer Science   **University of Missouri-St. Louis**
- • Machine Learning • Data Mining • Artificial Intelligence

PROFESSIONAL DEVELOPMENT

Certificate / Specialization:

    Professional Data Engineer   **Google**
    Data Science (10 mo.)   **Johns Hopkins University**
    Machine Learning (5 mo.)   **University of Washington**
    Data Science & Engineering with Spark (5 mo.)   **UC Berkeley**

Big Data (6 mo.)   **UC San Diego**
Data Science at Scale (4 mo.)   **University of Washington**
Statistics with R (6 mo.)   **Duke University**
Data Analysis & Interpretation (5 mo.)   **Wesleyan University**

Publication:
Kyu S. Cho (2019). *Deep learning analysis of neurodevelopmental outcomes in children with perinatal HIV*
Kyu S. Cho (2019). *Deep learning analysis of the frailty phenotype in older people living with HIV*
Kyu S. Cho (2017). *Ensemble learning with feature selection for Alzheimer's disease prediction*.

ACHIEVEMENT

Project and Research:
(Completed More than 120 Projects and Researches. Check out www.qcho1010.com for more details)
Finance & Business
- Stock Market Price Prediction • Money Ball and NBA Champion Prediction • Loan Repayment Rate Prediction
- Forecasting Interest Rate by the Fed. Reserve • Box Office Revenue Prediction • Insurance Rate Prediction

Automated System
- Next Word Auto-Completion Web App • Automatic Product Sentiment Analysis • Automatic Reviews in Medicine
- Song Recommender • Search Engine Simulator • Letter Recognition • Detecting Vandalism on Wikipedia

Medical & Health
- MRI Image Recognition for Finding Brain Tumor • Detecting Flu Epidemic via Search Engine Query Data
- Health Advisor A.I. • Analysis of Disease Control and Prevention • Exercise Manner Prediction

Public Benefit
- Potential Homelessness Prediction • Supreme Court Decision vs. ML Model • Potential Voter Prediction
- Potential Crime Area and Blight Status Prediction in Detroit • Potential Parole Violators Prediction

Award:
Hackedu at UMSL (1st Place)
- Bluetooth Location Tracker to Prevent the Future Loses

Global Hackathon 6 at SLU (Top 10)
- Analytic Platform for Future Homeless Prevention
- Efficient Resource Distribution and Management System

Arch hacks 3 at WSU
- Self-Motivated A.I. Health Care System

Golden Key International Honor Society
- For students with academic excellence & career goal

Dean's List
- For students with overall grade 80 and over

Public Presentation:
Building a Predictive Model for Time Series Data (2016)
Developing Powerful Models (2016)
NLP for Next Word Auto-Completion (2016)
Apache Spark (2016)
Mixture Models and EM (2016)
Journey to Kaggle Competition (2016)
Best Practice for Android Development (2015)