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Skokie, IL 60076

TIANCHANG LI

Dedicated to integrating advanced analytics and AI into traditional industries for optimized strategies and products

EDUCATION

Master of Science in Artificial Intelligence Engineering, Northwestern University, GPA: 3.92/4.0

December 2022

- Advanced NLP, Deep Generative Model, Data Science, Big Data, Reinforcement Learning, HCI, Law & Governance Bachelor of Science in Statistics & Computer Science, University of Wisconsin-Madison, GPA: 3.63/4.0 May 2020
 - Regression Analysis, Data Structure, Machine Learning, Computer Vision in Medical Image, Statistical Inference
 - Award: Dean's list

SKILLS

- Software: Python, SQL, Tableau, Git, Docker, Kubernetes, AWS, Spark, R, Java, Linux, NoSQL
- ML Libraries: Pandas, Scikit Learn, Numpy, PyTorch, TensorFlow, Matplotlib
- ML Models: Regression, Decision Tree (Random Forest, XGBoost), SVM, Gaussian Mixture Models, KNN, K-Means, PCA, Deep Learning (CNN, RNN, LSTM, ResNet, YOLO), GAN (IPCGAN), Transformer (GPT, BERT, Swin)
- Al Expertise: Vision (super resolution, style transfer), NLP (sentiment analysis, text classification), Recommender

PROFESSIONAL EXPERIENCE

Machine Learning Algorithm Researcher

June - September 2022

R&D Center - Zebra Technologies (#1 in mobile computing)

- Enhanced retail check-out reliability and reduced theft by implementing 3 cutting-edge computer vision systems (deep nets composed of CNN, Auto-Encoder, Transformer, ResNet) and restoration technique in PyTorch
- Built a system that boosted resolution of 17k commercial good images and doubled recognition rate (by 30%)
- Evaluated recent top ML architectures and customized them on target datasets to optimize pixel-wise recovery

Al Software Engineer

March - October 2022

Center for Deep Learning - Northwestern University

- Deployed open-source tools (*Tensorboard, Kubeflow*) via *Docker containers and Kubernetes* to offer **visual feedback** and **automatic parameter tuning** which **increased productivity** of model development by **5 hours/run**
- Integrated the tools in model serving products to create seamless user experience which attracted 2 investors

Strategic Analyst

March - June 2022

Horizon Therapeutics

- Identified 4 actionable insights in reducing claim denial rate by analyzing patient journey with statistical models
- Excelled in active, cross-functional communication through a close collaboration with 2 biomedical consultants

RESEARCH WORK

Lu's Bioinformatics Lab, University of Wisconsin-Madison

January 2019 - July 2021

- Interpreting Polygenic Score Effects in Sibling Analysis (2021), https://doi.org/10.1101/2021.07.16.452740
- Identified false assumptions in a golden approach for 10 years and suggested alternatives by data simulation
- Discovered 3 novel associations between marriage and DNA that enriched downstream social studies by performing regression analyses on large-scale data (2 million entries) from inception to completion in R

RELEVANT PROJECT

Al Contract Manager, Adobe

September - December 2022

- Built language models that helps non-legal users quickly extract condition clauses in contracts and organize risks with a 90% accuracy by applying NLP techniques and ML algorithms (Gradient Boosting, Naïve Bayes, SVM)
- Led developers to create a front-end prototype embedded in Acrobat that involves human in the loop

INVOLVEMENT & LEADERSHIP

WE22 Conference – by SWE

2022

Team Leader, *UW-Madison BRIDGE International*

2017 - 2018

• Facilitate smooth transitions for students from 20 countries by creating a friendly, culturally inclusive community