

Xinkai Chen

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EDUCATION

Carnegie Mellon University

Pittsburgh, PA

Master of Information Systems Management (GPA: 3.91, Highest Distinction)

Aug 2019 – Dec 2020

- Courses: Deep Learning, ML with Big Data, ML for Text Mining, Database Management, Distributed Systems

Fudan University

Shanghai, China

Bachelor of Management (School of Computer Science)

Sep 2015 – Jun 2019

- Courses: Information Systems and Security, Data Structure and Communication, Object-oriented Programming

EXPERIENCE

Data Scientist

Chicago, IL

Elevance Health, Inc. (formerly Anthem Inc.)

Mar 2021 – Present

- Built 10+ GPT-4o based RAG models to extract patient information for more efficient clinical review
- Created helper functions to reuse intermediate or shared prompt outputs and reduced ~15% token usage
- Transformed 10K+ pages of medical records with AWS Textract and various embeddings and chunking methods
- Built 10+ Transformer (S-BERT) models to automatically approve 30% cases with 85% precision to reduce costs
- Built 15+ LightGBM models with Bayesian optimization and achieved 50% auto-approvals with 90% precision
- Led 5 data scientists and delivered 30+ models; actively connected with business, clinical, and engineering teams

Machine Learning Consultant

Pittsburgh, PA

Hamiltonian Systems, Inc.

Jun 2020 – Dec 2020

- Built a TensorFlow neural network model to predict weekly inventory demands with more than 70% accuracy
- Led a group of 5 students and built tree-based models (Random Forest, XGBoost) for inventory lifecycle prediction
- Created a FastAPI interface to deploy ML models on the cloud for the engineers to cut human costs by 90%

Graduate Research Assistant

Pittsburgh, PA

Carnegie Mellon University

Feb 2020 – May 2020

- Analyzed 163K Yelp reviews using Structural Topic Model in R to discover sentiments and meaningful topics
- Used regression to evaluate the effect of special days and Propensity Score matching to handle class imbalance

Consultant Intern

Shanghai, China

Deloitte Consulting

Nov 2018 – May 2019

- Created an invoice classification tool using Python and Tensorflow with an accuracy of more than 90%
- Built automated invoice verification solutions for two clients to minimize human intervention (<5%) with UiPath

Data Analyst Intern

Shanghai, China

Dell Technologies

Nov 2018 – May 2019

- Created a Python classification tool for inventory alert level to cut the turnaround time by more than 95%
- Performed data cleaning and aggregation on 4K weekly data of 5 different data sources using VBA and Python

PROJECTS

AiBBA: GPT-2 Based Poetry Generation Model | *Python, GPT-2, FastAPI, Streamlit* Sep 2020 – Feb 2021

- Fine-tuned GPT-2 using 90K poetry corpus on GPU and generated poems that fooled humans 16% of the time
- Created an interface for the AI using Streamlit and FastAPI, and published the [AI poetry eBook](#) on Amazon

Music Popularity Prediction on One Million Songs | *Python, Spark, AWS*

Aug 2020 – Dec 2020

- Aggregated 1M distributed HDF5 files on AWS S3 and built 5 ML models on AWS EMR using PySpark
- Achieved 72% accuracy using gradient boosting and found top 10 most important features based on impurity

TECHNICAL SKILLS

Languages: Python, R, Java, SQL, HTML/CSS, C/C++

Developer Tools: Kubeflow, AWS, Jupyter, Git, Visual Studio, PyCharm, IntelliJ, FastAPI

Libraries: OpenAI, Pytorch, Transformers, TensorFlow, Pydantic, Scikit-learn, Spark MLlib, H2O, Pandas, NumPy