Contact

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www.linkedin.com/in/jinchaohou
(LinkedIn)

Top Skills

Knowledge Graphs

potege

Computer Vision

Languages

Chinese (Native or Bilingual)

English (Professional Working)

Certifications

Import & Cleaning Data in R: Case Studies

MATLAB for Financial Application

Exploratory Data Analysis in R: Case Study

Chartered Financial Analyst (CFA) Level 1

Intermediate Python for Data Science

Honors-Awards

Individual Scholarship

Jinchao Hou

Machine Learning Engineer / Data scientist
Greater Boston

Summary

Innovative Machine Learning Engineer with 3+ years of experience in model design, model training, development, testing and deployment. Highly experienced in building complex neural networks through python based on Tensorflow, Pytorch, and Jax. Possess an unbridled passion for machine learning related technologies. Highly experienced in identify, understand, analysis business scenario, End-to-end applying machine learning techniques into business solution including deploy model in AIOps Platform and Edge devices. Unmatched abilities to identify, understand, and translate scenario requirements into sustainable, advanced technical solutions through C++, Python, and others for continuous improvement of AI technologies. As an active learner, experienced in Big Data techniques, docker, K8s, etc.

Experience

HUAWEI Technology co., ltd.
Machine Learning Engineer
April 2021 - Present (2 years 1 month)
Shenzhen, Guangdong, China

• Responsible for building the data system planning and decision-making optimization methods of the combined order business, build data pipelines and evaluation methods.

• Optimized Merge Order Model combined with the business scenario, effectively reducing the cost of shipping by 10 pts (400K USD/Y) 3 times faster.

• Launched AI email project in CRM Program, analyzed the business process, and extracted Support Request information by tokenization, word embedding, vectorization, etc.

• Accomplished data collection, data cleansing, model training, model quantization, and model deployment to boost users' workflow by 60%.

• Build computer vision workflows and infrastructure to train, sustain, and update models in production, applications including Smart city, project safety Management, and Project Compliance Management.

• Quantized model on mobile device and edge device to speed inference time (5 times faster) and compress model size (8 times smaller).

• Delivered Restful API in micro-server application to support CRM System extract SR information globally.

Shenzhen Ysstech Info-Tech Co., Ltd
Data Analyst
September 2020 - December 2020 (4 months)
Foshan, Guangdong, China

· Using protégé in the data map project in China Guangfa Bank to model the FIBO financial entities business

· Using HMM, NLP technology to perform entity extraction for table names, relation extraction, and entity modeling for table data

· Using OpenCV to Preprocess images, like sharpen, rotate, crop, deform and etc, and OCR to achieve image table capture.

GE Aviation
Staff Analyst
January 2019 - July 2019 (7 months)
Boton , MA

• Designed, built, and extracted large and complex data sets.

• Manipulated, analyzed, and interpreted complex data sets relating to alerts reports for events which may cause risk.

• Extracted and merged multiple tables to build employee' risk profile.

• Improved efficiency of alert analysts by building classification models to provide prediction within the certain risk.

• Designed and created a web app for presenting the model's performance by using RShiny dashboard.

• Created and managed analytics dashboard reporting solutions, with a focus on providing well-thought-out actionable insights and analysis.

宜信卓越财富投资管理（北京）有限公司
Financial Advisor
July 2017 - October 2017 (4 months)
Shanghai City, China

• Performed due diligence, including Antitrust and Regulatory Issues, Product and Services, Market Estimation.

• Evaluated companies based on Cost Approaches, Discontinued Cash Flow (DCF) approach, and Comparable Company Analysis (CCA).

• Analyzed investing risk based on sensitivity analysis and setup companies' growth strategies based on simulated future profit and potential risk.

• Prepared and presented key value of companies and investing risk to both internal and external investors.

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Education

Northeastern University
Master of Analytics, Analytics · (2018 - 2020)

Jiangxi University of Finance and Economics
Bechelor of Economics, Investments and Securities · (2014 - 2018)