

Jeffrey Hsieh

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OBJECTIVE

Seeking a position as Data Analyst as a recent graduate with experience in leading a team to develop prediction systems for Bank of America. Extensive experience in building machine learning prediction model, manipulating database, and familiarizing in statistical algorithms.

EDUCATION

M.S. in Data Science – New Jersey Institute of Technology GPA: 3.75 / 4.0 Jan 2021 – Dec 2022

Relevant Coursework: Machine Learning, Deep Learning, Data Analytics with R Program, Enterprise Database Management

B.S. in Statistics and Information Science – Fu Jen Catholic University Sep 2015 – Jun 2019

Relevant Coursework: Mathematical Statistics, Data Mining, Nonparametric Analysis, Regression Analysis, Multivariate Statistics

EXPERIENCE

Bank of America Jan 2022 -May 2022

Lead Developer - Prediction of Power Outage impact on Customer Service

- Designed and deployed a power outage prediction system for Bank of America to forecast the impact of weather conditions on financial customer service
- Developed a SQL server to process a large-scale dataset that included 5-year NOAA nationwide weather data and real-time weather information gathered from APIs, providing a solid foundation for the prediction model
- Led the development of an automated system and effectively communicated progress to Bank of America leadership, resulting in positive feedback and recognition
- Utilized XGBoost Regressor to create a predictive machine learning model, achieving high accuracy for our client

New Jersey Institute of Technology Jan 2022 – Dec 2022

Teaching Assistant on Deep Learning Course

- Coordinated study events to improve students' Python programming skill and deep learning coursework study
- Assisted students in accelerating their onboarding process, and enhancing their skills in building deep learning network, resulting in a 20% improvement in their course scores

PROJECTS

Autonomous game agent using Reinforcement Learning Oct 2021 – Dec 2021

- Designed novel mechanics using memory split technologies and Deep-Q-Learning, reducing the training time for OpenAI reinforcement models by 30% for Atari games
- Developed an AI agent capable of playing the breakout game, and used the resulting pre-trained model to improve performance in the space-invader game
- Improved the AI agent's abilities further by fine-tuning a pre-trained model to fit the specific game

Top 10% Kaggle Competition | Digital Recognizer Oct 2022 – Nov 2022

- Achieved top 10% performance ratings among 1,368 participant teams in the Deep Learning area
- Designed and developed a CNN model to accurately recognize handwritten digit images with 99.6% accuracy, using TensorFlow and Keras

SKILLS

Programming and Technology: Python, SQL, R, Java, JavaScript, HTML/CSS

Frameworks and tools: Power BI, Tableau, Scikit-learn, Tensorflow, Flask, Hive, Snowflake, Spark, Tidyverse, Purrr

CERTIFICATION

IBM Data Science Professional Certificate Coursera | IBM Mar 2023

Google Data Analytics Professional Certificate Coursera | Google Feb 2023