Youngjin Song

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EDUCATION

University of Illinois at Urbana-Champaign — Urbana-Champaign, IL
Bachelor of Arts in Economics with Minors in Business and Computer Science — Expected May 2026
Transferring to Computer Science + Economics
GPA: 3.68/4.00
Relevant Coursework: Data Structures, Game Development, Development Economics, Public Sector Economics, Data Analytics Applications in Business, Art of Web Programming, Discrete Structures, Fundamentals of Accounting

PROJECTS

Predictive Modeling of MLB Player Performance
- Developed a comprehensive predictive model to forecast MLB players' Wins Above Replacement (WAR) using historical data and machine learning.
- Utilized Python libraries such as Pandas, NumPy, and PyBaseball, for data manipulation and acquisition to complete the model.

Predictive Modeling of Bitcoin Price
- Built a predictive model to forecast Bitcoin price movements, integrating historical price data with Wikipedia edit data to enhance prediction accuracy.
- Achieved improved accuracy by implementing an XGBoost model and utilizing backtesting and rolling computations to strengthen prediction reliability.
- Employed Python libraries such as Pandas, yFinance, and Scikit-learn to ensure robust model evaluation and continuous performance monitoring.

Dog Breed Classification with a Neural Network
- Trained a neural network using TensorFlow and Keras to classify images of dogs by breed, focusing on model optimization and accuracy improvements.
- Conducted detailed performance analysis and visualization using Pandas and Matplotlib to monitor model accuracy and optimize training processes.

EXPERIENCE

Project Code, Fantasy Trading Room — Urbana-Champaign, IL
Development Team Member — August 2024 - Present
- Contributed to Fantasy Trading Room (https://fftradingroom.com), a Fantasy Sports content startup with 1,000,000+ views through a student organization called Project Code.
- Engineered a Trade Comparison Tool utilizing Python and data science techniques to enhance user engagement and provide advanced analysis for fantasy sports trades.

Eco Illini Supermileage — Urbana-Champaign, IL
Treasurer/Business Team Lead — May 2024 - Present
- Managed and maintained financial accounts exceeding $14,000 for a student-led organization focused on designing and building fuel efficient cars for competition.
- Led the diversification of funding sources by seeking sponsorships, grants, and donations, increasing financial stability for the team's initiatives.
- Oversaw procurement processes, including placing orders for critical vehicle components and overseeing inventory.

SKILLS

Languages: Python, C++, Java, HTML/CSS, Javascript
Libraries: NumPy, Pandas, Scikit-learn
Software: Excel, Powerpoint, Word, Git, VS Code, Docker, Tableau