

ERIC CHOI

ehchoi@seas.upenn.edu | [Linkedin](#) | [Project Portfolio](#) | [Github](#) | U.S. Citizen

EDUCATION

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| University of Pennsylvania <i>MSE</i> in Data Science (GPA: 3.80 / 4.00) <i>BA</i> in Economics, Minor in Math, Statistics and Data Science (GPA: 3.80 / 4.00) | Philadelphia, PA Graduation Date: May 2025 |
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PROFESSIONAL EXPERIENCE

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| Miura Global Management Data Analytics Intern | New York City, NY June 2024 - |
| <ul style="list-style-type: none">Implemented the first-ever statistical forecasting model for Royal Football Club Liège by analyzing 1M+ data points from prior seasons; model is currently aiding coaches in optimizing player performance and match preparations.Devised an innovative approach to talent identification by creating algorithms that processed 500+ player metrics; this foundational tool is now utilized by scouting teams to refine recruitment strategies and decision-making.Developed sophisticated player profile reports utilizing advanced data visualization techniques, including multi-dimensional graphs. | |
| Analytics at Wharton Summer Research Associate | Philadelphia, PA May 2023 - August 2023 |
| <ul style="list-style-type: none">Led a team of five in developing an advanced Expected Goals (xG) model for the Philadelphia Union, introducing a custom variable that segmented the attacking half of the field into arcs instead of linear zones, resulting in more accurate performance predictions.Orchestrated the processing and analysis of a substantial 2 TB dataset of JSON tracking and event data, utilizing Wharton's High-Performance Computing Cluster (HPC3) to leverage parallel processing, optimize computational efficiency, and enhance data integration workflows. | |
| University of Pennsylvania Center for Neuroscience & Society Research Intern | May 2022 - September 2022 |
| <ul style="list-style-type: none">Analyzed significant associations among structural brain data, depression status, and socioeconomic status from a comprehensive biomedical database comprising 500,000 UK residents aged 45-91.Developed predictive models to forecast depression risk based on neuroimaging patterns, optimizing model performance to achieve an accuracy rate of 85% | |
| Statistics Teaching Assistant | August 2023 - |
| <ul style="list-style-type: none">Led weekly recitation and office hours for undergraduate, graduate, and MBA students and responsible for grading homework, tests, and quizzesData Analytics and Statistical Computing (Spring/Fall 2024), Probability (Fall 2023), Regression Analysis for Business (Fall 2023) | |

SKILLS

Programming Languages: Python, R, SQL, Java, JSON | **Database and Processing Tools:** Snowflake, Spark, Hadoop
Technical Skills: Machine Learning, Statistical Analysis, Relational Databases, ETL Processes, Data Mining
Relevant Coursework: Applied Machine Learning, Databases for Analytics, Artificial Intelligence, Modern Data Mining, Data Analytics and Statistical Computing, Econometric Methods and Models

PROJECTS

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| AI/ML Soccer Analysis System (Python) | August 2024 |
| <ul style="list-style-type: none">Developed an AI-driven football analysis system utilizing YOLO (real-time object detection software), OpenCV, and Python to automate player, referee, and ball detection and tracking in football match videos. | |
| Predictive Modeling for NYC Uber Tips (SQL, Apache Spark, Python) | May 2024 |
| <ul style="list-style-type: none">Engineered and deployed a predictive model utilizing Apache Spark and advanced machine learning algorithms on an 18 million-record dataset of NYC Uber trips to determine the best predictors of riders' tip percentage. | |
| March Madness Game Outcome Predictor (R) | December 2023 |
| <ul style="list-style-type: none">Built machine learning classifiers (logistic regression, decision trees, random forest) for March Madness games using historical data, achieving 82.4% accuracy with Random Forest. | |