

# Jeffrey Lin

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## EDUCATION

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### New York University

*B.S. Math and Computer Science*

New York, NY

Graduation Year: 2026

- GPA: 3.59 / 4.0
- Relevant Coursework:
  - Data Structures and Algorithms, Object Oriented Programming, Design & Analysis of Algorithms, Databases, Operating Systems, Software Engineering, Computer Architecture, Machine Learning, Artificial Intelligence, Linear Algebra, Applied Probability and Theory of Probability.

## RELEVANT EXPERIENCE

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### Consigli Construction

*Software Development Intern*

Milford, MA

May – August 2024

- Developed a company-wide full-stack staffing application for over 100 stakeholders using HTML, CSS, and JavaScript frontend with API calls to a QuickBase backend.
- Conducted research utilizing TensorFlow and Keras to develop a neural network model for analyzing construction images using computer vision to detect safety violations.
- Developed a multivariable regression model using Random Forest to predict construction project costs based on material data, location, project type, and additional factors.
- Collaborated in an Agile development environment, contributing to Scrum meetings and driving progress in sprints.

### Waters Corporation

*Software Engineering and Machine Learning Intern*

Milford, MA

May – August 2023

- Built a dynamic Power BI model that influenced decision-making for over 100 stakeholders, contributing to more than \$100K in sales.
- Engineered an XGBoost classification model to assess the impact of representative-customer relationships on opportunity win/loss outcomes.
- Automated and streamlined analytics by integrating Azure, SQL, Power BI, Salesforce, and other tools, ensuring consistent data delivery to stakeholders.
- Developed expertise in backend development, API calls, database management, server-side programming, and RESTful services.

### New York Machine Learning Club

*President*

New York, NY

August 2022 – Present

- Led NYU's largest machine learning organization.
- Organized NYMLC's annual hackathon, attracting over 100 participants and securing sponsorship from leading tech companies.
- Designed and conducted workshops on machine learning topics, such as neural networks, back-propagation, natural language processing, regression, classification, computer vision, and reinforcement learning.

## PROJECTS

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### Art Price Prediction Model

*AMD - Cloudera Hackathon*

- Built an image regression model with TensorFlow and Keras, using art image data scraped via BeautifulSoup, to predict art prices based on color and shape analysis.
- Designed a weighting system leveraging an artist's Wikipedia page length to refine art price predictions.
- Awarded 2nd place out of 132 teams.

### Fantasy Football Player Performance Predictor

- Engineered a machine learning model using XGBoost to predict player performance in fantasy football.
- Aggregated and preprocessed large datasets, including player statistics, injuries, ADP (Average Draft Position), position performance history, and position value.
- Applied feature engineering techniques, such as creating injury impact scores, team performance metrics, and position value over the course of a season.
- Developed a RESTful API using Flask to deliver real-time predictions, ensuring efficient interaction between the model and a React frontend by optimizing API response times and load handling.
- Designed and integrated a React frontend that visualizes real-time predictions and player performance insights

## ADDITIONAL INFORMATION

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- **Skills:** Python (Expert), C++ (Expert), C (Advanced), Java (Advanced), SQL (Advanced), JavaScript (Advanced), TypeScript (Proficient), R (Proficient), Git, PostgreSQL, MySQL, Django, Angular, MongoDB, Docker, Kubernetes, TensorFlow, React, CSS, HTML, Unix, PyTorch, Scikit, Flask