

Spencer Bradkin

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EDUCATION

Syracuse University

Expected Graduation: May 2024

Bachelors of Science in Computer Science

Relevant Coursework: Algorithms, Operating Systems, Data Structures, Software Development, Machine Learning

SKILLS

Languages Proficient Python(8yrs) Intermediate SQL(2 yrs) · C#(2yrs) Beginner Java(1yr)

Software AWS · Docker · scikit-learn · pandas · Tableau · Matplotlib · numPy

EXPERIENCE

Software Engineer

Oct 2024 - Present

EdgeFinder

New York, NY

- Designing machine learning model to predict NFL game outcomes using Python and scikit-learn, analyzing 4,300+ games across 17 NFL seasons
- Engineering ETL pipeline integrating team stats, weather, injuries, and travel metrics
- Building pregame features like momentum and position group ratings to reduce leakage
- Visualizing prediction results and feature importances in Tableau to refine model accuracy
- Achieving 70% accuracy and actively optimizing feature set to improve long-term performance

PROJECTS

"Waddup" Event Finder | Team Project (~500 hours) - [Waddup Github](#)

Aug 2022 - May 2023

- Used Python, Django, and HTML to build full-stack hub for discovering student-led concerts, comedy shows, and campus nightlife events
- Led 6-person Agile team through 9-month SDLC, integrating key features like user auth, user friendship, and access control

Brand Sentiment Analysis | Team Project (~100 hours)

Jan 2023 - May 2023

- Used Twitter API, SQLite3, and sentiment analysis tools to analyze sentiment between competing brands across a 3 month period
- Generated brand sentiment reports over time to compare feelings over direct competitors and determine actionable insights for each brand

Heart Disease Classification | Independent Project (~100 hours)

Jan 2024 - May 2024

- Used neural networks in Python to classify 1000+ health reports as heart disease or not using various optimization techniques
- Generated model comparison reports to determine which model performed best using custom scoring metric as well as time efficiency and computing power

Financial Fraud Detection | Independent Project (~40 hours)

Jun 2024 - Jul 2024

- Used Random Forest and Logistic Regression models in Python to detect financial fraud cases on a dataset of over 6.3 million data points
- Analyzed fraud patterns to highlight high-risk transactions and proposed prevention strategies

Telecommunications Customer Churn | Independent Project (~40 hours)

Jul 2024 - Aug 2024

- Used Stacked Ensemble of Random Forest, Decision Tree, and XGBoost models on over 7,400 data points to predict when telecommunications customers quit
- Identified churn patterns and offered retention insights for high-risk customer segments

NFL Weather Bot | Independent Project (~50 hours) - [Twitter Account](#)

Oct 2024 - Nov 2024

- Used Python, AWS Lambda, and Docker to build serverless Twitter bot for game-day NFL weather reports
- Scheduled automated game-day tweets using AWS EventBridge and OpenWeather API

Activities

Sports Analytics Accelerator - Selected participant in sports ML cohort refining NFL prediction model

Apr 2025 - Present

Secretary (ACM Club) - Coordinated events and marketing for ACM Club at Syracuse University

Aug 2021 - May 2022