Calvin Zheng

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EDUCATION

University of North Carolina at Charlotte Expected May 2026

- **Major**: Bachelor of Science in Data Science **Cumulative GPA**: 3.82
- **Courses**: Applied Regression, Database and Design, Data Structures and Algorithms, Data Mining

EXPERIENCE

Data Analyst Intern | UNC Charlotte Men's Soccer Team **Charlotte, NC**

Data Analyst January 2024 – Present

- Implement KPIs to guide UNC Charlotte Men's Soccer by analyzing crucial performance metrics. Enhance strategic decision-making for game-winning strategies.
- Developed detailed opponent analysis reports used by coaches to enhance strategy formulation, contributing to the team's top 10 national ranking at the start of the season

PROJECTS

LionAPI Python Package

PyPi | https://pypi.org/project/LionAPI/

- Developed Python scripts for scraping soccer data from multiple sources, storing it in an AWS-hosted MySQL database to streamline data processing and storage.
- Designed and implemented a RESTful API with FastAPI to enable users to query detailed match data, including team information, scores, and game dates.
- Published the API package on PyPi, making it accessible to developers and users, with plans for future enhancements, such as advanced data analytics features and expanded data sources.

TFT Roll Probability Calculator

Binomial Probabilities

- Built a Flask-based web application to provide users with an interactive tool for calculating the probability of rolling 9 identical units in a tactical game, considering factors like gold, rarity, and unit availability.
- Created a custom binomial distribution formula to calculate and visualize odds, enabling users to make informed decisions during gameplay.

Champions League Model

Multi-Classification Model

- Collected, cleaned, and organized 5 years of Champions League soccer data, storing it in a SQL database for structured analysis.
- Developed a multi-class classification model in Python to predict team progression through tournament stages, achieving a prediction accuracy of 73.8%.
- Applied data normalization and feature engineering techniques to ensure fairness and accuracy across different stages of the tournament.

Expected Assists Model

Logistic Regression

- Scraped and cleaned passing data from WhoScored, focusing on key passes from Premier League teams over the past year.
- Implemented a logistic regression model to assign probabilities to passes that were likely to be assists (0-1 scale), identifying the most impactful and threatening passes within matches.
- Analyzed the effectiveness of players' passing strategies, providing insights for tactical improvements and player performance evaluation.

TECHNICAL SKILLS

- Python; Java; Microsoft Excel; Jupyter Notebook; SQL; Flask, Machine Learning, Regression, Statistical Modeling