JATIN ADYA B

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PROFESSIONAL EXPERIENCE

Chess Betting Markets
Freelance **Dec 2024 – Present**

- Developing machine learning models using historical chess game data (e.g., player Elo ratings, capture counts, game termination patterns) to forecast match outcomes and optimize betting strategies.
- Conducting statistical analysis using Python (Pandas, NumPy, Scikit-learn) to quantify risk-reward probabilities and generate actionable insights
- Tech Stack: Pandas, NumPy, Scikit-learn, R, Lichess

Basketball Analyst / Writer
Babcock Hoops **Dec 2024 – Present**

- Writing data-driven articles and analysis on player performance, team strategies, and game trends for a leading basketball analytics platform.
- Utilizing machine learning models and advanced statistics to predict game outcomes, evaluate player impact, and identify key performance trends.
- Tech Stack: Python, Pandas, Scikit-learn, HoopR, Basketball Reference

Data Analytics Intern
Sphere Solutions **Jan 2023 - Jul 2023**

- Developed real-time Grafana dashboards for the client, CSX, enabling effective tracking of key vehicle metrics such as status, rental duration, and location, resulting in improved data accessibility and decision-making.
- Embedded Grafana dashboards within a custom Flask web application, delivering a seamless user experience with integrated real-time data visualization and management, enhancing operational efficiency.
- Tech Stack: Python, Grafana, Flask, SQL, JavaScript

SKILLS

- Programming Languages: Python (Pandas, NumPy, Scikit-learn, LightGBM, Matplotlib, Seaborn), R (dplyr, ggplot2, caret), SQL
- Visualization Tools: Grafana, Matplotlib, Seaborn, Tableau
- Frameworks: Flask, Scikit-learn
- Cloud Technologies: Google Cloud Platform

PROJECTS

Customer Churn Prediction - The Hartford Insurance Group

- Developed a two-step LightGBM model to predict customer churn with an accuracy of 0.84, to predict the likelihood of flat-term or mid-term cancellations.
- Contributed to improving customer retention by developing a predictive model that identified customers likely to cancel their policies, enabling targeted retention and segmentation efforts.
- Tech Stack: R Programming Language, dplyr, ggplot2, caret, Tree-based Machine Learning Models

Claim Cost Prediction - Travelers Insurance Group

- Contributed to improving insurance claim cost and severity predictions for auto insurance, securing the top benchmark score of 0.229 in Travelers' Kaggle competition by utilizing predictive analytics for auto insurance claims.
- Developed and implemented a two-phase model, integrating a Poisson classifier with an Inverse Gaussian regressor, significantly improving prediction accuracy.
- Tech Stack: Python, Pandas, Scikit-learn, Matplotlib, Generalized Linear Models (GLM)

EDUCATION

University of Connecticut **2023 – 2024**
Master's in Data Science, GPA: 3.6

ACHIEVEMENTS

- Winner of the Travelers Insurance Analytics Case Competition.