Vincenzo Palazeti, M.Sc.

Indianapolis, IN | 989-627-1337 | website

Python | Docker | SQL | AWS | MongoDB | R | MLFlow | Airflow | Spark | Linux | Git

Probability Theory | Statistical Inference | Predictive Statistics | Data Visualization | Bayesian Statistics

Work Experience

Lead Data Scientist | AlphaPeak 02/2022 - Present

- Designed, trained, evaluated, and applied statistical models to create robust predictions and forecasts in the competitive US horse & sports wagering markets
- Architected and constructed complete production pipeline for live algorithmic wagering by leveraging modern tech stack (Python, Docker, Airflow, AWS, MLFlow, MongoDB, Spark)
- Discovered statistical artifact via intensive data mining which lead to a large reduction in prediction error metrics and increased model performance
- Uncovered codebase issue which required complete overhaul of modeling done prior to my employment
- Innovated algorithm evaluation procedure to account for domain attributes not previously considered which resulted in eschewing large betting losses
- Lead group of junior data scientists through various research projects providing technical mentorship

Data Scientist | Sports Betting Innovative Analytics 01/2021 - 02/2022

- Owned the full lifecycle of a model starting with data exploration and mining, followed by statistical algorithm selection, then historical & combinatorial backtesting evaluation, and finally production implementation & monitoring
- Developed complex NoSQL MongoDB aggregates, combining data from various sources and formats into a unified pipeline
- Created AWS Sagemaker, Tensorflow, Modern Feature Selection, and ML-Ensemble training documentation
- Collaborated with industry experts to produce novel insights which were implemented into production
- Delivered readable, intuitive reports containing data visualizations, statistical summaries, and key metric results in weekly stand-up to both technical & non-technical team members

Assistant Statistician | Department of Criminal Justice Research 03/2020 - 01/2021

- Led grant-funded research team in data-management lifecycle and developed automated procedure to clean, merge, and store multiple datasets from various sources
- Created text mining algorithm that produced labels from unstructured text fields to differentiate specific types of arrests and probation violations
- Conducted multiple logistic regression to analyze relationship between sanctions and outcomes of 30,000 Cook County Probation cases

Education

Loyola University Chicago - Master's, Applied Statistics
September 2019 - December 2020 Chicago, IL

Ball State University - Bachelor's, Professional Selling
September 2013 - December 2017 Muncie, IN