Vincenzo Palazeti, M.Sc.

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Work Experience

Lead Data Scientist, AlphaPeak

February 2022 - Present

- Constructed complete, scalable production pipeline for live wagering by leveraging Docker, Airflow, AWS, MLFlow, MongoDB, Python and Spark
- Designed, trained, evaluated, and applied statistical models to create robust predictions and forecasts in the competitive US horse & sports wagering markets
- 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
- Researched, designed, and implemented state-of-the-art machine learning algorithms published in academic journals
- Provided technical mentorship to team members with issues concerning Python, R, Docker, MongoDB, PostgreSQL, Linux, Amazon Web Services, etc.
- Interviewed prospective candidates and evaluated their abilities with management

Data Scientist, Sports Betting Innoative Analytics

January 2021 - February 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, University of Loyola Chicago Department of Criminal Justice

March 2020 - January 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

University of Loyola Chicago - Master's, Applied Statistics

September 2019 - December 2020   Chicago, IL

Ball State University - Bachelor's, Professional Selling

September 2013 - December 2017   Muncie, IN