Jack C. Yeung

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EDUCATION

Indiana University - Bloomington

May 2026

Master of Science in Data Science, Applied Data Science in Economic Analysis

Indiana University - Bloomington

July 2024

Bachelor of Science in Informatics, Minor & Cognate in Psychology

Relevant Coursework: Machine Learning, Applied Machine Learning, Applied Algorithms, Game Theory for Business, Engineering Cloud Computing, Exploratory Data Analysis, Performance Analytics, Network Science, Information Infrastructure, Information Representation

TECHNICAL SKILLS

- O Languages: Python, SQL, Shell, HTML5/CSS
- O Tools: Power BI, Git, Shell
- O Libraries: Scikit-learn, PyTorch, PySpark, Pandas, NumPy, SciPy, NetworkX, GeoPandas, Scrapy, Selenium, BeautifulSoup, Matplotlib, Seaborn, Pytest

EXPERIENCE

CarePlus New Jersey

June 2025 - August 2025

- Data Analyst Intern Paramus, NJ Developed a Power BI compliance dashboard reconciling reported vs actual telehealth time across two data sources,
- improving match rates by 10% and strengthening negotiation readiness with insurers O Engineered a scalable PySpark pipeline to process 2B+ insurance rate records, integrating billing codes, geolocation, and
- O Delivered a market analysis of two major insurers against state averages and competitors, identifying 4 underpaid billing codes and presenting a 26.5% potential annual revenue uplift to senior leadership

Center for Complex Networks and Systems Research (CNetS)

taxonomy data to isolate accurate in-network rates

June 2023 - February 2025

Bloomington, IN

- Research Assistant
- Developed and optimized probabilistic ranking models to evaluate competitive dynamics (Formula One, elections), improving predictive performance and achieving 14x faster convergence.
- O Collaborated with a team in weekly meetings to design and refine experiments, Co-authoring a research paper detailing the methodology and findings to a peer-reviewed publication in Physical Review E

PUBLICATIONS

1 Jack Yeung, Daniel Kaiser, and Filippo Radicchi. Efficient inference of rankings from multibody comparisons. Phys. Rev. E, 112:014305.

PROJECTS

End-to-End Machine Learning On Real World Apartment Data

- O Automated a data retrieval and storage pipeline using Scrapy for advanced web scraping to gather, validate, and store real estate data for over 300,00 units into a SQLite relational database
- O Conducted exploratory data analysis (EDA) with Geo Pandas for visualizations and spatial mappings of different neighborhoods, providing insights into market analysis and investment decision-making
- Trained and Tuned an XGBoost(Extreme Gradient Boosted Trees) predictive pricing model, incorporating natural language processioning for feature engineering of amenity text data, reducing model error by 55%, to aide in accurate identification of under-priced apartments

Cloud Based Applications

- O Implemented a key-value store deployable on Google Cloud Platform (GCP) virtual machines, ensuring efficient storage and retrieval of data on the cloud
- O Recreated and optimized a research-backed matrix multiplication schema using Map-Reduce, leveraging GCP serverless functions for parallel computation, achieving an 8x speed improvement to the standard matrix multiplication
- Applied heuristics for efficient virtual machine allocation, minimizing resource wastage and optimizing cloud infrastructure utilization