Quinn J. Pearson

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Education

Georgia Institute of Technology, College of Computing, Remote, US   Expected May 2027
Masters of Science - Computer Science
Grade: 4.0/4.0

Binghamton University, State University of New York, Harpur College, Binghamton, NY   May 2023
Dual Degrees - Economic Analysis (B.S.), Mathematical Sciences (B.A.); Minor - Physics

Relevant Coursework: Bayesian Statistics, Machine Learning for Trading, Economic Forecasting, Econometrics, Linear Algebra

Professional Experience

Data Scientist   December 2024 - September 2025
Jetro Restaurant Depot
- Across $200M in monthly invoices, automated workflows and engineered an interface that delivered a 3% lift in pricing accuracy
- Led A/B testing and statistical inference to optimize OCR-based data ingestion, reducing manual processing time by 30%
- Engineered a self-service procurement platform that eliminated engineering dependency and accelerated turnaround times by ~10%
- Powered a demand forecasting initiative across 400+ locations through development of libraries to process and distribute results
- **Technology Used:** Python, SQL, Docker, Apache Airflow, Plotly Dash, MLFlow, MinIO, Git

Summer Research Assistant   May 2025 - July 2025
Georgia Institute of Technology, Legislative Congruence Lab
- Centralized data from 10+ sources on congressional representatives into an accessible API to enable transparent policy research
- Designed and implemented a paired tagging system that enhanced accessibility and speed of bill analysis for researchers
- **Technology Used:** Python, pandas, Git

Consumer Insights Data Analytics Extern   June 2024 - August 2024
Beats by Dre
- Analyzed over 5,000 customer reviews using NLP and multi-layered LLMs for sentiment analysis influencing branding strategies
- Transformed technical findings into accessible stakeholder presentations, driving data-informed marketing decisions
- **Technology Used:** Python, pandas, Matplotlib, Gemini AI

Business Analytics Extern   February 2024 - April 2024
Hewlett-Packard Company (HP)
- Conducted comprehensive market research on 50+ AI tech startups identifying 3 high-potential investment opportunities
- Developed detailed comparative reports on startup strategies and valuations to facilitate informed investment decisions
- **Technology Used:** Python, pandas, SQL, Matplotlib

Project Experience

Bayesian Structural Time Series for Forecasting and Trend Analysis   January 2025 - May 2025
- Built a hierarchical BSTS model utilizing spike-and-slab priors to capture local, seasonal, cyclical dynamics achieving ~1% MAD
- Translated technical research into accessible visualizations and reports, enabling actionable insights for nontechnical audiences
- **Technology Used:** PyMC, pandas, NumPy, requests

[Financial Statements Reader](#)   December 2023 - March 2024
- Developed a computer vision and NLP pipeline to automate extraction of key financial data from 100,000+ complex images
- Engineered an NLP classifier with ~90% accuracy for page categorization, enhancing data organization and retrieval
- **Technology Used:** Python, Google Cloud, Tesseract, OpenCV, PyMuPDF, Selenium, pandas, NumPy, SQL, SQL Server

[Sailfort Motors Churn Analytics Project](#)   October 2023 - November 2023
- Segmented employee profiles through a combination of clustering and statistical testing to identify features correlated to churn risk
- Enabled retention strategies by developing a random forest model classification model achieving 99% accuracy and 95% F1-score
- **Technology Used:** Python, scikit-learn, SciPy, Statsmodels, seaborn, Matplotlib, pandas, NumPy, Jupyter Notebooks

Technical Skills

- **Programming Languages:** Python, SQL, HTML, R, MATLAB
- **Big Data Technologies & Frameworks:** Docker, Apache Airflow, MS SQL Server, Spark
- **Other Tools and Technologies:** Tableau, Google Cloud Platform (GCP), Git, Plotly Dash