Scott Pitcher

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SUMMARY

Driven Data Scientist with 3+ years of experience spanning research and development, specializing in advanced statistical analysis and communicating key data insights. Seeking to expand my skill set through challenging, impactful projects across industries.

SKILLS & LANGUAGES

Tools: PyTorch, TensorFlow, Scikit-Learn, MySQL, NoSQL, AWS, GCP, Apache Spark, Flask, Docker, Kubernetes

Programming Languages: Python, SQL, R, MATLAB, Java, Ruby, HTML, Javascript, CSS, Lua, C++

WORK EXPERIENCE

Moffitt Cancer and Research Institute, *Tampa, FL*   *September 2022 – June 2024*

Research Data Scientist

- Developed data pipelines using SQL on GCP BigQuery to process and clean 250GB of patient data, reducing API access time by 36%, promoting CI/CD best practices, and ensuring data integrity for downstream analysis.
- Led the integration of advanced statistical methods (XGBoost, Bayesian Inference), improving model precision by 12% and delivering actionable insights for clinical decision-making.
- Applied Causal Inference and Active Learning techniques to refine key variables, improving model efficiency by 31%.
- Collaborated with cross-functional teams to design and deploy machine learning models (Scikit-learn), achieving 97% model accuracy for patient outcome predictions.
- Presented critical data insights via Tableau and Seaborn visualizations, influencing strategic decisions for future projects.

EDUCATION

University of South Florida, *Tampa, FL*   *August 2020 – June 2024*

Bachelors of Science in Computational Mathematics*: Data Analytics and Business Intelligence Concentration*

- Cumulative GPA: 3.86/4.00 (Magna Cum Laude); USF Green & Gold Scholarship *(~$15,000/year),* Dean's List
- **Relevant Coursework:** Advanced Probability, Data Analysis, Machine Learning Development/Deployment, Statistics

PROJECTS

Pokemon Platinum AI - *[(GitHub)](#)*   *July 2024 - September 2024*

Tools: PyTorch, Computer Vision, Reinforcement Learning (with Human Feedback), MLflow, flask

- Developed and optimized a reinforcement learning AI model with human feedback (RLHF), boosting task completion rate by 35% and improving decision-making efficiency in complex game environments.
- Integrated YOLOv9s object detection for real-time gameplay frame analysis, reducing manual annotation time by 78% via automated labeling and fine-tuning.
- Enhanced the AI's ability to retain sequential gameplay data by integrating LSTM-based memory in PyTorch, boosting decision-making accuracy by 31%.

Spotify User Analysis And Recommender System – *[(GitHub)](#)*   *July 2024 - August 2024*

Tools: PyTorch, Pandas, Numpy, Scikit-learn

- Implemented reinforcement and active learning techniques, elevating predictive accuracy by 20% through user-interaction adaptation, addressing diverse user behavior patterns.
- Reduced customer churn by 44% with a scalable playlist recommender in PyTorch using GCNConv layers, enhancing user retention across varied demographics.

Tampa GPT - *[(GitHub)](#)*   *May 2024 - July 2024*

- Developed a language model (LLM) specifically tailored to handle local language nuances, utilizing advanced NLP techniques to preprocess and tokenize large text datasets sourced from Tampa's local forums and news articles.