Scott Pitcher

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SUMMARY

Impact-driven Data Scientist with 3+ years of experience, skilled in statistical analysis, deep learning, and MLOps, leveraging Python, SQL, and cloud platforms to drive data-insights. Known for team-oriented mindset and adaptability in tackling complex challenges.

SKILLS & LANGUAGES

Tools: PyTorch, TensorFlow, Scikit-Learn, MySQL, Looker, AWS, GCP, Amplitude, 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

MLOps Engineer

- Led development of the institute's first MLOps framework, reducing API access time by 36% and cutting operational costs by 14%. Established CI/CD and Docker containerization best practices to enhance scalability.
- Boosted predictive model accuracy by 22% by integrating advanced statistical methods, including principal component analysis, regression techniques, and Bayesian inference, to drive actionable insights for strategic decisions.
- Accelerated data processing for downstream analysis by 40% by developing high-efficiency data mining and preprocessing pipelines with NLP, SQL, and GCP BigQuery, integrating ElasticSearch.

Data Scientist

- Oversaw the design, testing, and deployment of machine learning models, using pandas, XGBoost, and Scikit-learn, achieving a 97% mean accuracy across all patient outcome variables.
- Enhanced model efficiency by 31% by using statistical inference to refine key variables and applying active learning to select the most informative data for training, boosting overall model performance.
- Collaborated with cross-functional teams to present critical data insights through Tableau dashboards and Seaborn/matplotlib visualizations, directly impacting strategic decision-making.

EDUCATION

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

B.S. in Computational and Applied Mathematics, Concentrated in Data Analytics and Business Intelligence

- Cumulative GPA: 3.86/4.00 (Magna Cum Laude); USF Green & Gold Scholarship (~$15,000/year), Dean's List
- Relevant Coursework: Advanced Probability, Business Intelligence, Linear Algebra, Bayesian Statistics, Multivariable Calculus

PROJECTS

Pokemon Platinum AI - (Report) (GitHub) July 2024 - September 2024

Tools/Skills: PyTorch, Computer Vision, Reinforcement Learning (with Human Feedback), MLflow, GCP Storage, Docker, FastAPI

- Developed a PyTorch-based AI model from scratch to navigate tasks in Pokémon Platinum, achieving 82% mean action accuracy across all tasks by fine-tuning a computer vision model (YOLOv9s) and implementing reinforcement learning (RLHF).
- Increased computational efficiency by 22% by streamlining the model architecture with batch normalization and reducing model depth, alongside implementing mixed-precision training to optimize GPU memory usage without sacrificing accuracy.
- Boosted task completion rate by 35% through integrating human-in-the-loop learning.

Spotify User Analysis And Recommender System – (Report) (GitHub) July 2024 - August 2024

Tools/Skills: PyTorch, Pandas, Numpy, Scikit-learn, A/B Testing

- Developed a data-driven product recommendation model in PyTorch, utilizing customer segmentation, aimed at understanding and maximizing user engagement metrics and support decision-making through quantitative analysis.
- Improved model accuracy by 20% through hypothesis-driven enhancements using reinforcement and active learning techniques.
- Reduced customer churn by 44% via structured experimentation and A/B testing, designing a scalable, SQL-integrated model.