Dwight Luther Temple

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Professional Experience Summary

- Specialized in global fraud prevention through implementing and innovating ML solutions
- Skilled in Python, GNNs, RNNs, GANs, XGBoost, and Catboost
- Dedicated to continuous learning, evidenced by published research and business-partner success
- Comprehensive understanding of DNNs, optimization, and tracker integration

Work History

Apple, Senior Machine Learning Engineer 4/2022 – Present

- Boosted fraud program efficiency by 50% YoY via process improvements and model consolidation
- Pioneered GNN initiatives and advanced feature engineering techniques
- Mentored interns, focusing on label-decomposition and innovative ensembles for fraud attribution
- Implemented time-series-transformer model for pattern-of-life feature extraction

Apple, Machine Learning Engineer 5/2020 – 4/2022

- Developed fraud analytics model, preventing $35M+ in annual fraud losses using Python, XGBoost, Snowflake
- Reduced model development lifecycle from 2 weeks to 1 day via automation, standardization, infrastructure scaling
- Optimized model deployments using PySpark, reducing error detection SLA from 4 hours to 5 minutes
- Devised multi-model fraud detection methods and integrated image-segmentation model for manufacturing
- Collaborated across teams to leverage diverse data sources and drive informed decision-making

Exoanalytic Solutions, Artificial Intelligence Engineer 5/2016 – 5/2020

- Developed SSA detection suite: deep-learning, multi-target-tracking, 500k+ daily observations
- Delivered hybrid physics-informed RNN for tracking highly maneuverable aerospace vehicles
- Engineered probabilistic DNN for multi-sensor radar data in Python, Tensorflow, MATLAB
- Applied multi-hypothesis tracking in cluttered environments for satellite simulations
- Led proposal team, developed new business areas with AI and industry standards

Education

University of Alabama in Huntsville 2018
Master of Science in Management Science, Business Analytics, 3.9

Mississippi State University 2016
Bachelor of Science, Aerospace Engineering, 4.0
Activities: marching band, resident adviser

Publications

- Temple, D. Real-Time Plume Detection and Segmentation Using Neural Networks. J Astronaut Sci 67, 1793–1810 (2020). https://doi.org/10.1007/s40295-020-00237-w
- Temple, D. "Synthetic Heterogeneous Anomaly and Maneuver – Neural Network Event Winnowing." Annual Advanced Maui Optical and Space Surveillance Technologies, 2018
- Temple, D. Poole, M. "Network Enabled – Unresolved Residual Analysis/Learning." Annual Advanced Maui Optical and Space Surveillance Technologies, 2017