AARON DANIEL

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Data scientist and AI researcher with 5+ years experience in aerospace & defense, applying AI/ML to solve complex engineering challenges

EXPERIENCE

Senior Data Scientist, Lockheed Martin Missiles and Fire Control **2022 – 2025**

- Recommendation Data Model and Analytics Suite: Independently developed recommendation model (SAP HANA, SQL) and analytics tool (Tableau) which employs business rules to recommend part procurement strategy and provide valuable data insights to key stakeholders, enabling data-driven decision making and resulting in $1.2M annual labor savings
- OCR, NLP for business automation: Developed front-end (Python, Streamlit) and back-end (Python, SAP HANA, Windchill) application which leverages OCR, NLP, and recommendation system to extract data from engineering drawings and recommend quality notes, resulting in $175K annual labor savings
- Analytics Development and Maintenance: Help maintain 40+ dashboards and data sources (SAP HANA / SQL) on Tableau Server aligned to business objectives and digital transformation with 200K+ user views annually
- Automated Optical Inspection IRAD: Developed data collection, preprocessing, augmentation, and ML front-end and pipeline for inspection and classi cation of manufactured parts through IRAD fund

Aeronautical Engineer / Data Analyst, Lockheed Martin Aeronautics **2020 – 2022**

- Developed ML models for the identification and classification of aircraft maneuvers in flight test data
- Drove characterization of aircraft system performance in flight and lab test environments through manipulation, analysis, and visualization of large time series data sets with Python and Tableau
- Delivered new capabilities for F-16 Data Analysis teams through agile development of robust Automated Data Analysis & Visualization Tool in Python

Program Management Intern, Lockheed Martin Aeronautics **2019**

Program Management Intern, General Atomics **2018**

Engineering Intern, General Atomics **2017**

EDUCATION

University of Texas at San Antonio, MS Artificial Intelligence **2022 – 2025**

- Concentration: Computer Science, GPA 3.9/4.0
- Masters Thesis: “Advancing Explainable AI Methods for Audio Classification”
- Relevant Coursework: Advanced Machine Learning, Computer Vision, Deep Learning, Applications of AI Model Explainability (Independent Study)

Texas A&M University, BS Aerospace Engineering, Spanish Minor **2015 – 2020**

SKILLS

- Languages & Frameworks: Python (NumPy, Pandas, Scikit-learn, SciPy, OpenCV), SQL, TensorFlow, PyTorch
- AI/ML: Deep Learning, Computer Vision, NLP, GenAI, Explainable AI, Reinforcement Learning
- Signal Processing: Radar, Electronic Warfare, Communications, Time Series Analysis, Audio Data Analysis
- Tools: SAP HANA, Tableau, Streamlit, Git, Docker, OpenShift, AWS EC2