



Dr. MICHAEL J. PENDLETON

Doctorate in Engineering, with a concentration in artificial intelligence and machine learning engineering, The George Washington University | San Antonio, TX ▪ 210.287.2024

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OBJECTIVE

AI/ML Engineer, Data Scientist & Analyst with extensive experience in strategic data analysis, predictive modeling, and statistical programming. Advanced proficiency in Python, R, SQL, SAS, PowerBI, and Tableau. Skilled in transforming complex data sets (petabyte's) into actionable insights, with a strong background in managing large-scale projects and implementing data-driven strategies.

SKILLS

AI/ML Engineer, Data Scientist, Analysis & Visualization: Python, R, SQL, SAS, PowerBI, Tableau
Predictive Modeling & Statistical Analysis with LLM's
Swift UI (Certified Apple Developer)
Strategic Data-Driven Decision Making
Policy Development & Process Improvement Algorithms to the Quantum Level

PROFESSIONAL EXPERIENCE

CEO, THE AI COWBOYS & THE QUANTUM COWBOYS,
WWW.THEAICOWBOYS.COM; WWW.THEQUANTUMCOWBOYS.ORG
- 01/24 - PRESENT

DATA SCIENCE & ANALYST DIRECTOR, UNITED STATES AIR FORCE - 11/2022 TO 07/2023 (DEPARTMENT OF THE AIR FORCE CIVILIAN, GS-13)

- DATA ANALYSIS & STRATEGIC PLANNING: ANALYZED AND INTERPRETED DATA TO GUIDE STRATEGIC PLANNING, ENHANCING PROGRAM EFFICIENCY BY 30%.
- BUDGET & RESOURCE MANAGEMENT: MANAGED A \$3M BUDGET, OPTIMIZING RESOURCE ALLOCATION, ACHIEVING A 100% EXECUTION RATE.
- TECHNOLOGY IMPLEMENTATION & TRAINING: DEVELOPED AND CONDUCTED TRAINING ON DATA SYSTEMS, IMPROVING PROCESS EFFICIENCY BY 25% ACROSS MULTIPLE TEAMS.
- POLICY DEVELOPMENT & ADVISING: STREAMLINED OPERATIONS BY ADVISING ON DATA-DRIVEN POLICIES, IMPACTING OVER 11 GLOBAL LOCATIONS.

STRATEGIC HUMAN RESOURCES LEADER, UNITED STATES AIR FORCE - 07/2020 TO 10/2022

- MANAGED LOGISTICS AND SUPPLY CHAIN ANALYTICS FOR TRAINING SUPPLIES AND EQUIPMENT WORTH \$824K.
- DEVELOPED DATA-DRIVEN TRAINING PROGRAMS, ACHIEVING A 94% COMPLIANCE RATE IN UNDER TWO YEARS.
- ACTED AS INTERIM HR DATA ANALYST, OPTIMIZING PERSONNEL MANAGEMENT PROCESSES.

SENIOR OPERATIONS DIRECTOR – UNITED STATES AIR FORCE - 09/2017 TO 7/2020

- LED DATA ANALYSIS FOR A 4,200-PERSON ORGANIZATION, MANAGING ASSETS WORTH \$3.5B.
- COORDINATED WITH 500+ EXTERNAL AGENCIES FOR RISK MANAGEMENT, REDUCING SECURITY INCIDENTS BY 40%.

CERTIFICATIONS

LEAN SIX SIGMA BLACK BELT (LSSBB), VILLANOVA UNIVERSITY

MASTER SIX SIGMA CERTIFICATION IN PROJECT MANAGEMENT, VILLANOVA UNIVERSITY

DIVERSITY, EQUITY AND INCLUSION IN THE WORKPLACE CERTIFICATE, MUMA COLLEGE OF BUSINESS, UNIVERSITY

OF SOUTH FLORIDA
STRATEGIES FOR LEADING SUCCESSFUL CHANGE INITIATIVES, HARVARD UNIVERSITY (IN-RESIDENCE)

PROJECTS

APPLE DEVELOPER (ADVANCED PROFICIENCY IN SWIFT UI CODE)

CONVENE COMMUNITIES' PLATFORM, DATA SCIENTIST, ARTIFICIAL INTELLIGENCE & MACHINE LEARNING ENGINEER.

EDUCATION

DOCTORATE IN ENGINEERING, WITH A CONCENTRATION IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING ENGINEERING, THE GEORGE WASHINGTON UNIVERSITY

MASTER OF SCIENCE IN DATA SCIENCE & ANALYTICS, THE UNIVERSITY OF TEXAS AT SAN ANTONIO (2024)

MASTER OF BUSINESS ADMINISTRATION, HARVARD UNIVERSITY, CAMBRIDGE, MA (2018)

MASTER OF SCIENCE IN PROJECT MANAGEMENT, VILLANOVA UNIVERSITY, VILLANOVA, PA (2016)

MASTER OF SCIENCE, CRISIS, EMERGENCY AND DISASTER MANAGEMENT, TRIDENT UNIVERSITY (2013)

MASTER OF SCIENCE, STRATEGIC LEADERSHIP AND MANAGEMENT, UNIVERSITY OF WEST VIRGINIA, CHARLESTON (2022)

BACHELOR OF BUSINESS ADMINISTRATION, TRIDENT UNIVERSITY (2011)

ASSOCIATE OF APPLIED SCIENCE CRIMINAL JUSTICE, COMMUNITY COLLEGE OF THE AIR FORCE, MAXWELL AIR FORCE BASE, AL (2008)

ASSOCIATE OF APPLIED SCIENCE INSTRUCTOR OF MILITARY SCIENCE AND TECHNOLOGY, COMMUNITY COLLEGE OF THE AIR FORCE, MAXWELL AIR FORCE BASE, AL (2011)

EXPERIENCE & LEADERSHIP

As a strategic leader in the United States Air Force, I have honed my expertise in strategic planning and resource management, adeptly overseeing a budget of \$3 million and spearheading operational efficiency enhancements across diverse teams. My leadership journey has encompassed the command of teams exceeding 200 individuals, the stewardship of significant assets, and the pioneering of data science system training, culminating in refined process efficiencies. In high-pressure scenarios, I have adeptly coordinated with upwards of 500 external agencies, showcasing my acumen in risk management and decision-making.

My extensive leadership experience is complemented by a robust technological proficiency in Data Science & Analytics, Artificial Intelligence & Machine Learning. These disciplines have not only been integral to my operational roles but have also inspired a deep-seated intellectual curiosity about the philosophical underpinnings of technology and leadership. It is this unique confluence of data-driven insights, strategic leadership, and a philosophical approach to technology that I bring to the table. As a prospective doctoral candidate, I am poised to contribute to and drive success within the dynamic and interdisciplinary landscape of AI and ML, through the lens of practical application.