

Monday, 24 April

1130-1630 Registration

	Belmont I	Belmont II	Belmont III	Belmont IV
1230-1325 1325-1330	MLOps to Accelerate the Kill Chain in the Air Domain, Mr. Joey Cheung, Raft	Dataiku 101: Workshop, Mr. Darien Mitchell- Tontar and Mr. Chris Olen, Dataiku	OODA Loops and Warfighting Operations Analysis Officers, Mr. Stewart Greathouse, USAF	Weights and Biases - Enterprise Model Management for Deep Learning, Mr. William Pleskow, Weights and Biases
1330-1425	Military Data Labeling 101: Best Practices and Methods for Efficient and Accurate Labeling for Military Al Development & Testing, Mr. Peter Kant, Enabled Intelligence	Tableau for the Analyst, Mr. Brian Harris, Tableau Software	How to use Workera for Skills Intelligence, Mr. Ozzy Khan and Ms. Diana Wolfish, Workera	Mapping a Blueprint for Organizational Use of Al Design, Implementation and Deployment: A Workshop for Stakeholders, Decision-Makers and End Users, Mr. Am Asif Haider, COOPVA and Dr. Destinee Prete, PG Strategies Group
1425-1430	Break			
1430-1525	AFIT Professional Development Courses in Data Science, Data Analytics and Data Engineering, Lt Col Hiren Patel, AFIT	Implementing a Production-grade Pipeline for Image Segmentation, Mr. Ben Faircloth, Databricks	Machine Learning at Scale: Industry Perspectives, Lt Col Joseph Chapa, DAF	Enabling a Scalable, Futureproof AI Ecosystem Across the Hybrid & Multi- cloud, Dr. Kjell Carlsson, Domino Data Lab
1525-1530	Break			
1530-1625	AI/ML Empowered Computer Vision for FMV at the Edge, Dr. Besma Abidi, Phelps 2020, Inc.	Military Aircraft Identification Using Image Classification in Dataiku Ms. Lexa Treml and Dr. Charles Wheelus, Dataiku	Plotly Dash Enterprise and Databricks – Building Powerful Production Applications, Mr. Michael Razo, Plotly	Automate The Boring Stuff for Data Scientists, Mr. Luke Shulman and Mr. Zach Maurer, DataRobot



Tuesday, 25 April

0800-0900 Registration and Breakfast Pastries

Belmont Foyer

0900-0905 Welcome

Ms. Eileen Vidrine, SES, DAF

Chief Data & Artificial Intelligence Officer

Belmont Ballroom

0905-0930 Opening Remarks

Mr. Rowayne A. Schatz, Jr., SES, DAF

Director, Studies & Analysis

Belmont Ballroom

0930-1000 Keynote Presentation

The Honorable Frank Kendall Secretary of the Air Force

Belmont Ballroom

1000-1040 Keynote Presentation

Ms. Diane Staheli, Chief, Responsible Al

Chief Digital and AI Office, DoD

Belmont Ballroom

1040-1050 Break

	Belmont I	Belmont II	Belmont III	Belmont IV	Piedmont I	Piedmont II
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1050-1130		arge Organizations	• •	nves	AF Weather AI/ML	Data Ethics
	Moderator:	Lt Col Joseph Chapa	, DAF		Projects Mr. Fred	and Ethical
	Mr. Michael	Mr. Michael Harasimowicz, LCMO				AI, Mr. Joseph
	Mr. Ron Kees	sing, Leidos	Systems; Dr. Mark	Troy Morgan,		
	Mr. Jay Meil,	SAIC	Veillette, Dr. Shibi	The		
	Ms. Alka Pate	el, Comcast			Rajagopalan, MIT LL	Aerospace
						Corporation
1130-1245	Lunch					



1245-1330	DAF Data Fabri	egic Vision: Mr.	Cloud Based Enterprise Capability Development Data Architecture, Mr. Clarence Williams, AF/A5/7 Air Force Futures	The Human Machine Team: Al Directed Decisional Guidance for the Warfighter of Tomorrow, Mr. Jay Meil, SAIC	Implementing a JavaScript Strategic Calendar in Envision, 1 Lt Miliano Mikol, USAF	NGA's ML- Ops Platform Mr. Mitchell Edward Pillarick, III, National Geospatial- Intelligence Agency
1330-1345	Break					
1345-1430	DAF SAF/CND VAULT Data Platform, Ms Marlu Oswald, Seed Innovations	Zero Trust Data Pillar / MAJCOM Data Discussion, Dr. Michael Bradfield, MITRE	Plotly – Dash Application Use Case Deep Dive, Mr. Michael Razo, Plotly	Unleashing the Power of the Data Lakehouse: Achieving Decision Dominance in JADC2, Mr. Zafer Bilaloglu, Databricks	Adapting Compact Computer Vision AI for Real-time Object Detection, Dr. Byunggu Yu, Strategi	Exploiting the USAF Data Fabric for Live Performance Monitoring of AFNET Operations, Dr. Yechezkal Gutfreund
1430-1445	Break					
1445-1530	Data Analytics with VAULT Tech Stack, Ms. Sarah Green, USAF	GOVERNMENT ONLY SESSION: ELICSAR - Shaping the Future of Information Warfare, Mr. John Vona, ACC/A589, Maj Matthew Rask, AF/A2/6C A3C, Mr. Cody Hunt, CTR, MSgt Jeremy Caton, ACC/A589	Aircraft Routing and Attrition Calculation for Campaign Analysis, 1 Lt Austin Logan, ACC/A9A	Enabling Zero Trust Access on AF VAULT, Mr. Chris Brown, Immuta	Air Force Operational Training Infrastructure (OTTI) Data Fabric Discussions, Mr. Mark David Ashford and Mr. John R. Hutt, USAF	Establishing Security in AI/ML Based Systems, Mr. Andrew Basil Spage, CalyposoAl



1530-1545 Break

Belmont Foyer

1545-1600 Speakers

Col Tucker "Cinco" Hamilton, USAF Chief of AI Test & Operations, DAF Chief Data & Artificial Intelligence Office

Belmont Ballroom

1600-1645 Keynote Presentation

Mr. Chris Whitlock, Partner, aiLeaders, LLC
 Mr. Frank Strickland, Partner, aiLeaders, LLC

Belmont Ballroom

1645 Adjourn

1730 Networking Social

A drop-in networking event will be held at Crooked Run Fermentation, located at 22455 Davis Dr., Sterling, VA. We

encourage all attendees to join us starting at 1730.

Wednesday, 26 April

0800-0900 Registration and Breakfast Pastries

Belmont Foyer

0900-0930 Opening Remarks

Ms. Eileen Vidrine, SES, DAF

Chief Data & Artificial Intelligence Officer

Belmont Ballroom

0930-1030 Keynote Presentation

Dr. Seth Dobrin

President, Responsible Al Institute

Belmont Ballroom

1030-1050 Break



	Belmont I	Belmont II	Belmont III	Belmont IV	Tarara	Piedmont I	Piedmont II
1050-1130	Cyber Threat PDF Report Parsing Tool, 1 Lt Benjamin McCloskey, USAF	Panel Lt Col Andrew Bowne, MIT Al Accelerator, Mr. Phillip Reiman, OGC Support for DoD CDAO, Mr. Shane Shaneman, CMU	Visualizing a Satellite Footprint in VAULT with R, Lt Col Brian Stone, PACAF	CBC2 Communicati ons Broker for Interoperabili ty and Integration within the ABMS Ecosystem, Ms. Angela Sheffield and Ms. Bhaarat Sharma, Raft	Air Education and Training Command, Strategic Command Dashboard, 1 Lt Richard Smith, USAF, AETC	Continuous Intelligence at Scale: Real- time Streaming Data Working with Human Cognition, Mr. Ron Garnett, CTA	Course of Action Optimization through Machine Learning, Mr. Cameron Izzi, AFS
1130-1145	Break	<u> </u>		,	<u>'</u>		1
1145-1230	COCOM NLP Applications, Maj Nick Griese, USCENTCOM	Upskilling: How to Win the Battle for Data, AI, and Machine Learning Talent, Mr. Doug Bryan, Dataiku	DAF AI Education, Maj Megan Muniz, Mr. John Radovan, MIT	Multi-Domain Battle Management Centaur Teams, Mr. Bartley Stewart, USSF SSC/BZR, Dr. Richard Carter, The Alan Turing Institute, UK	Military Open Source Application Integration Center (MOSAIC), Maj Jonathan Turner, AFIT	Data Science/AI/ML in the Space Force, 1 Lt Michelle McGee, USAF	Responsible Machine Learning for United States Air Force Pilot Candidate Selection, C1C Devin Wasilefsky, USAFA
1230-1345	Lunch						
1345-1430	Flight Line of the Future with Interactive Multimedia and Automation, Mr. Brian Geisel, Geisel Software, Inc.	Assignments and Special Opportunities by AFPC - Where can I go?, Maj Cazzi Rose, USAF	Satellite Constellation Sensor Tasking Using Reinforcement Learning, Dr. Benjamin Rodriguez, II, JHU/APL	Data Modeling for Collaborative Combat Aircraft Development, Lt Col Jesse Breau, Argonne National Laboratory	F-16 IR Deconfliction for Coordinated Attacks using Laser Guided Bombs, Mr. Robert McFarland, III, USAF	Data Science in Developmental Test, Mr. Abraham Eaton, USAF	An Al/ML Sandbox You Can Actually Use, Ms. Ting Wang, Omnifederal



1430-1445	Break						
1445-1530	13N FORGEN Assessment Scheduling Tool (FAST), Capt Jake Ehrlich, AFGSC/A9A	GOVERNMENT ONLY SESSION: Reimagining Manpower Resourcing Decisions in the Human Capital Ecosystem: An Analytic Force Roadmap for 2024, Maj Joey Hoecherl, USAF	Autonomy Capability for Next Generation Air Dominance, Dr. Kevin Schmidt, ARFL	AI, Uncertainty, and the Proportionali ty Principle, Lt Col Joseph Chapa, DAF	Safeguarding the Bioeconomy: Biotechnology Needs a Security PatchBadly, Mr. Edward You, Office of the Director of National Intelligence	Data Integration Network for Operational Energy, Dr. Jordan Eccles, USAF	Remote Sensing and Inference in the Information Environment, 2d Lt Tom Galligani, USAF
1530-1545	Break	,					
1545-1630	DAFAC Update Department of Analysis Awar (Ceremony go	of the Air Force rds Ceremony	Dynamic Dashboarding for Warfighters, Mr. David Yu, Microsoft	The Intelligent Data Fabric: The Right Data, for the Right People, at the Right Time, Mr. Bruce Cerretani, IBM	Decision Making Via Plotly Dash, Dr. Elsa Schaefer, LinQuest/US SF	Object Detection in FMV data on the VAULT Platform, Dr. James Stockton, Altamira Technologies	Detecting GNSS Interference - JADC2, Mr. Kyle Lindgren and Mr. Zach Maurer, DataRobot

Thursday, 27 April

Hilton Washington Dulles Airport: Unclassified Sessions

0800-0900 Registration and Breakfast Pastries

	Belmont I	Belmont II	Belmont III	Belmont IV	Piedmont I	Piedmont II
0900-0945	Squadron	Toward an	Innovative	Using Finite Source	Beyond the	Workforce Analytics
	Manning &	AI/ML-	Approaches to	Queueing and	Algorithm,	Dashboard -
	Personnel	Enabled Data	Resourcing	Simulation to	Ms. Maggie	Visualizing DAF
	Management	Fabric	Strategy:	Optimally	Smith	Diversity and
	Tool, Mr.	Reference	Campaign Plans,	Determine the	Accenture	Inclusion, Lt Col
		Architecture,	Readiness, and	Number of	Federal	Leah Pound,



0945-1000 1000-1045	Nathan Tatko, USAF Break The Power of	Dr. Anthony Lapadula and Mr. Michael Walters, MIT LL	Requirements, Mr. Jason Hepp, USAFE-AFAFRICA	Maintenance Repair Workstations for a Fleet, Dr. Greg Gehret, USAF	A Conformal	Secretary of the Air Force Managing a Critical
1000 1043	Automation: Using Microsoft Tools to Create a Custom Data Solution, Dr. Cynthia Juliana Pena-Baker, USAF	Information Scalability Challenge in Data Fabrics: ML-based Approaches to Harnessing Complexity, Dr. Kevin Nam, MIT LL	Science: Addressing the Convergence of Emerging Technologies Ms. Sabrina Hoback and Mr. Edward You, ODNI	Comparing Pilot Proficiency in Undergraduate Pilot Training Programs, Dr. Tyler Danley, USAF	Prediction Approach to Quantify Student Pilot Error via Multimodal Physiological Signals, 2d Lt Gregory William Barry, USAF	Infrastructure Cyber Battlespace with a Community Cyber Force, Mr. Alexander Brickner, University of Massachusetts Lowell
1045-1100	Break					
1100-1145	Epistemic Planning for Heterogeneou s Robotic Systems, Ms. Lauren Bramblett, AFIT	The Digital Age: Upskilling & Analytics as a Force Multiplier, Ms. Gabrielle Cappadona, DataCamp	Use of Big Data and the Operationalizatio n Considerations for Suicide Risk Prediction Models, MAJ Carrie Donoho, USA, Research Facilitation Lab	Manning Deficit Mitigation Analysis for Undergraduate Pilot Training, Mr. Mark Hatch, AETC	Tactical Level Survey Analysis, Mr. Quinton Brown, USAF	
1145-1300	Lunch					



1300-1345	Weapons of Precise Destruction: a case study at the intersection of law, targeting operations, and AI, Mr. Harris Heit and Ms. Emma Lamberton, VISIMO	Farsight: Edge Processed 3D Modeling & Al to Support JADC2, Ms. Noelle Tuss and Mr. Parker Clark, Reveal Technology, Inc.	2AF In Instructor Diversity Index (DI) Study, Ms. Ruby Morales, USAF	Developing Measurables Objectives for Rated Diversity Improvement Initiatives, Dr. Cigdem Meek, USAF	Automated Registration of Polarized Light Microscopy Images Using Deep Learning Techniques, Capt Nathan Johnston, SAF/SARI	CE Utilities Forecasting: Time Series Predictions with Deep Neural Networks in TensorFlow Keras, Mr. Patrick Emilio Aizpurua, DoD
1345-1400 1400-1445	Break 15A Career Field in the Air Force Reserve and Air National Guard, Col Terence Kudo, Air Force Reserve Command	Dynamic Target Optimization System (DyTOPS), Mr. Lee Kraus, Securboration		What I Learned as an MIT AI Accelerator Phantom Fellow, Mr. Joshua Couse, USAF		Indiscriminate Disruption of Conditional Inference on Multivariate Gaussians, C1C Matthew LaRosa, USAFA

Thursday, 27 April: Classified Sessions

The Aerospace Corporation: Hexagon Classified Conference Center

0800-0900 Registration and Breakfast Pastries

0900-0915 Opening Remarks

0915-1015 Keynote Presentation

Mr. Paul de Naray, DCIO(CS)/RAOI, Aerospace FFRDC

1015-1025 Break

1025-1055 Presentation: Themis

Lt Col Ashton Harvey, NRO



1055-1105	Break
1105-1135	Presentation: Comparison of Legacy and Al-Enabled Workflows Dr. Anna Rubinstein, NGA
1135-1145	Break
1145-1215	An Interactive R Shiny Dashboard for Viewing Combat Hammer Weapons Data Ms. Tara Nicole Bentley, 86 Fighter Weapons Squadron
1215-1300	Lunch
1300-1330	Presentation: Ukraine Crisis Airbase Defense Analysis Mr. Thomson McFarland, USAFE-AFAFRICA
1330-1340	Break
1340-1410	Presentation: Defense Planning Scenario (DPS) Mobility Timing and Force Generation Comparisons Maj Katherine Wilson and Ms. Jessie Thomas, USAF
1410-1420	Break
1420-1450	Presentations: Operational Analysis of Beyond Line-of-Sight (BLOS) C2 Lt Col Brian Stone, PACAF
1450-1500	Break
1500-1530	Presentation: Accelerating in Germany as a Government Technical Integrator (GTI) 1 Lt Youssef Ashraf Abubaker, Air Force/ NRO
1530-1545	Closing Remarks