High-Level Goals for AI/ML Use at NARA

These high-level goals align with NARA's mission to preserve and provide access to the nation's historical records, while leveraging the transformative power of AI/ML to improve digital experiences for NARA employees, researchers, and the public, improve efficiency, and enhance cyber security and our IT infrastructure.

AI Strategic Goal 1: Achieve NARA's Business Mission Through AI Integration

- **Objective 1: Improve Digital Public Access**
  - Employ AI to generate metadata and descriptions for the permanent federal/Presidential records in our custody.
  - Develop AI models to extract structured data from unstructured documents, such as, textual, audio, video, and digitized images.
  - Integrate AI into the reference workflow process in order to aggregate like requests and funnel them to the appropriate SME for more efficient responses.
  - Utilize AI to identify and classify different types of archival records, such as letters, diaries, photographs, and maps.
  - Implement AI-based PII detection algorithms to identify and redact personal information from archival records before making them publicly available ensuring compliance with privacy regulations.
- **Objective 2: Personalize Digital Experiences with the use of AI**
  - Develop AI tools that utilize natural language processing (NLP) and machine learning (ML) algorithms to enhance the search experience for internal and external users.
  - Develop AI/ML-driven recommendation systems to suggest relevant historical resources to users based on their preferences and past interactions.
  - Implement chatbots and virtual assistants to provide personalized assistance and guidance to researchers and visitors.
  - Employ AI/ML to translate and adapt content for users with different language and accessibility needs.
  - Ensure transparency and compliance with privacy regulations, so users have clear information about how their usage data may be used for AI/ML applications and users may opt in or out of personalized experiences.
- **Objective 3: Assure Authenticity of Archival Content**
  - Leverage AI tools to ensure that authenticity is maintained throughout the life cycle of all digital assets under NARA custody, concepts such as watermark in digital certificate.
  - Generate and publish unique cryptographic hashes for archival items to allow the public to detect alterations or tampering.
  - Train AI models to periodically review archival content to detect anomalies or inconsistencies that may indicate potential tampering.

AI Strategic Goal 2: Establish Responsible and Ethical Use of AI at NARA

- **Objective 1: Foster Responsible and Trustworthy AI Usage**
  - Establish interim guidance and develop an overarching NARA policy for responsible and trustworthy AI and ML usage, including: policies and procedures for proactive disclosure when AI is used to support or generate work products and content; and for the ethical development, deployment, and monitoring of AI systems, ensuring diversity and inclusion, as well as compliance with relevant laws and regulations.
  - Establish regular review cycles to assess AI performance to ensure fairness and accuracy and take corrective action when discriminatory bias is detected.
  - Provide a forum, as well as a confidential channel, to encourage employees to raise concerns about potential ethical and bias-related issues of AI tools in use at NARA.
- **Objective 2: Develop and Implement AI Governance**
  - Establish an AI governance board for the development of best practices of AI for NARA and engage stakeholders in the decision-making process.
  - Define roles and responsibilities for AI development, deployment, and monitoring.
  - Assign responsibility to a Senior Accountable Official for responsible and ethical use of AI at NARA.
  - Review and revise existing policies and procedures to ensure continued compliance with relevant laws and regulations to safeguard privacy, civil rights, and civil liberties in a modern environment.
- **Objective 3: Implement a Comprehensive Risk Management Framework for AI Systems**
  - Integrate AI into NARA's risk management framework in order to help to identify and assess potential risks associated with the development, deployment, and use of AI systems at NARA that are reviewed on a regular basis.
  - Utilize the National Institute of Standards and Technology (NIST) [AI Risk Management Framework](#) to address challenges unique to AI systems and encourage and equip different AI stakeholders to manage AI risks proactively and purposefully.

AI Strategic Goal 3: Foster a Culture of Innovation at NARA

- **Objective 1: Accelerate test and deployment of new AI tools and practices**
  - Establish a dedicated AI/ML organization to explore and test emerging technologies and applications for records preservation and access.
  - Research and develop a framework to rapidly test and deploy emerging technology with appropriate controls in place for privacy, security, and responsible use of AI.
  - Host workshops and conferences to promote the exchange of ideas and foster a vibrant AI/ML community internal and external to NARA.
  - Develop a stakeholder engagement plan that ensures collaboration with peer

institutions, research organizations, and industry partners to leverage external expertise, accelerate innovation, and establish best practices for AI use.

- **Objective 2: Build an AI-Proficient Workforce and Culture**
  - Recruit new employees with specialized AI expertise, including data scientists, AI developers, and project managers experienced in AI projects.
  - Identify and offer AI training opportunities to keep employees updated on the latest AI/ML advancements, fostering a knowledge-based culture and enhancing problem-solving capabilities.
  - Develop and implement a comprehensive mentorship and coaching program to upskill employees on AI technologies and best practices, fostering a culture of continuous learning and innovation.
- **Objective 3: Support AI innovation across the Agency**
  - Establish AI working groups to identify opportunities and develop requirements.
  - Prioritize deployment of enterprise tools that allow users to augment and support their work processes and analysis with AI tools.
  - Provide annual training on the ethical implications, legal risks, privacy and security impacts of AI technology for NARA staff.
  - Design an evaluation tool to assess changes in job functionality due to AI/ML impact on job responsibilities

AI Strategic Goal 4: Strengthen and Upgrade NARA's Security and Infrastructure to Support the Expanded Use of AI/ML

- **Objective 1: Strengthen Security and Compliance**
  - Utilize AI/ML algorithms to detect and prevent cybersecurity threats, ensuring the confidentiality and integrity of historical records.
  - Use AI/ML to analyze access logs and system activity to detect suspicious patterns or unauthorized access.
  - Develop AI/ML models to analyze historical data and identify potential risks and vulnerabilities.
- **Objective 2: Upgrade Infrastructure and Resources**
  - Invest in modernizing the IT infrastructure to support the implementation of AI/ML technologies.
  - Enhance data storage and management capabilities to accommodate large volumes of historical data and AI/ML models.
  - Upgrade network bandwidth at NARA to support the increased demands of AI/ML workloads.