Inject AI into the Mission

Google Cloud's AI provides modern machine learning services, with pre-trained models and a service to generate your own tailored models. Our neural net-based ML service has better training performance and increased accuracy compared to other large scale deep learning systems. Our services are fast, scalable and easy to use. Major Google applications use Cloud machine learning, including Photos (image search), the Google app (voice search), Translate, and Inbox (Smart Reply). Our platform is now available as a cloud service to bring unmatched scale and speed to your business applications.

Train Custom Machine Learning Models

Cloud AutoML is a suite of Machine Learning products that enables developers with limited machine learning expertise to train high quality models by leveraging Google's state of the art transfer learning, and Neural Architecture Search technology. AutoML Vision is the first AutoML product to be released. It is a simple, secure, and flexible service that lets you train custom vision models for your own use cases. Soon, Cloud AutoML will release other services for all other major fields of AI.

Train and Run at Mission Speed

Google Cloud TPUs are a family of hardware accelerators that Google designed and optimized specifically to speed up and scale up ML workloads for training and inference programmed with TensorFlow. TPUs are designed to deliver the best performance per dollar for targeted TensorFlow workloads, and to enable ML engineers and researchers to iterate more quickly.

Turn over for APIs: machine learning capability you can incorporate rapidly
Powerful Video Analysis

Google Cloud Video Intelligence API makes videos searchable and discoverable by extracting metadata, identifying key nouns, and annotating the content of the video. By calling an easy-to-use REST API, you can now search every moment of every video file in your catalog and find each occurrence of key nouns as well as its significance. Separate signal from noise, by retrieving relevant information by video, shot, or frame.

Powerful Image Analysis

Google Cloud Vision API enables you to understand the content of an image by encapsulating powerful machine learning models in an easy to use REST API. It quickly classifies images into thousands of categories (e.g. "sailboat", "Eiffel Tower"), detects individual objects and faces within images, and finds and reads printed words contained within images.

Powerful Speech Recognition

Google Cloud Speech API enables you to convert audio to text by applying neural network models in an easy to use API. The API recognizes over 110 languages and variants, to support your global mission. You can transcribe the text of users dictating to an application's microphone or enable command-and-control through voice among many other use cases.

Powerful Text Analysis

Google Natural Language API reveals the structure and meaning of text by offering powerful machine learning models in an easy to use REST API. You can use it to extract information about people, places, events, and much more mentioned in text documents. You can also use it to understand sentiment in documents and on social media, or parse intent from conversations.

Fast, Dynamic Translation

Google Cloud Translation API provides a simple programmatic interface for translating an arbitrary string into any supported language. Translation API is highly responsive, so websites and applications can integrate with Translation API for fast, dynamic translation of source text from the source language to a target language.
Sensitive Site Exploitation with Google Cloud

Situation
As part of the Special Operations mission to turn captured enemy material into actionable intelligence, commands are tasked with collection, exploitation, and dissemination of unclassified material to include documents, images, audio, and video. This results in challenges such as data storage & sharing, efficient exploitation, data correlation, and analyzing large volumes of data.

Solution
Google Cloud brings a unique combination of secure private fiber networking, scalable compute and storage resources, pre-trained machine learning APIs, open sourced data transformation pipelines, data warehousing technologies, and data visualization platforms to accelerate exploitation of valuable unclassified intelligence material.

SSE Reference Architecture
The proposed solution below includes the following key highlights:
- High-bandwidth private fiber network for rapid and reliable transfer of data out of theater
- Pre-trained algorithms for translation, object detection, sentiment analysis, and more
- Scalable data warehouse for storage, correlation, and export of exploitation results

Additional Links
https://cloud.google.com/products/machine-learning/
https://cloud.google.com/products/networking/
https://cloud.google.com/products/big-data/
Publicly Available Information and Open Source Exploitation with Google Cloud

✓ **Blend In**  Use the power of Google Cloud's global network infrastructure and global IP space to blend in with local traffic from your desired Point of Presence.

✓ **Immediate Answers and Machine Learning Enabled**  Incorporate already-trained machine learning APIs into your workflow to triage, translate, exploit, and catalogue the vast amounts of data collected at the speed of the mission.

✓ **Mission-Specific**  Work with Google to tailor the proposed workflow to fit your mission, with full visibility on how the elements work together to streamline analysis.

Incorporate Free Public Datasets Available to you on Google Cloud

GDELT Dataset: [https://www.gdeltproject.org/data.html#googlebigquery](https://www.gdeltproject.org/data.html#googlebigquery)


... and over 40 other datasets!