

# Soldier Recruitment with SambaNova

## World record performance and accuracy for secure generative AI

### Challenge

The United States Army fell about 25% short of its goal of onboarding 60,000 new active-duty troops in fiscal 2022 due to stringent recruitment requirements. This problem has permeated through fiscal 2024.

### Objective

To implement SambaNova AI-driven recruitment tools to automate candidate and recruit screening, analyze large pools of candidate data, and match qualifications with job requirements efficiently. Leverage natural language processing to understand recruitment documentation and structured data analysis to predict candidate success, speeding up the recruitment process and increasing the quality of soldiers delivered to the force.

### Distinguishing Factors

- World record performance and accuracy
- Data security & privacy
- Model/data ownership
- On-site/cloud services
- Data management
- Fine-tuned expert models
- Validation testing suite

### Justification

AI-driven tools, powered by the SambaNova platform, can analyze candidate data more efficiently than traditional methods. For example, the CoE model in SambaNova Suite offers “10X more efficiency” than other models of its size, which can significantly speed up the recruitment process by quickly matching qualifications with job requirements.

### Solution

SambaNova Suite, combined with the Samba-1 Composition of Experts (CoE) model, delivers the highest combination of performance and accuracy for generative AI. A complete hardware/software platform, SambaNova Suite can be deployed as a fully configured rack-level solution either on-premises, including air-gapped environments, or as a cloud-based solution. The Samba-1 model provides state-of-the-art accuracy across a wide range of use cases.

## Key Features

### Performance, Accuracy, and Efficiency

Only SambaNova delivers performance of over 1000 tokens/s at full precision, on as few as 16 sockets. This is an unrivaled combination of performance and accuracy with a small footprint, dramatically reducing power consumption.

### Total AI Stack Control

With options for on-premises and air-gapped deployments, SambaNova ensures complete data privacy and security, enabling the use of sensitive data for model training without external exposure.

### Model Ownership

Once a model is fine-tuned, it becomes the property of the customer in perpetuity, eliminating model ownership concerns.

### Configurable Access and Permissions

The Samba-1 model enables flexible access controls, allowing precise management of model permissions to align with organizational roles, enhancing security and ensuring compliance.

SambaNova Suite delivers the most accurate, integrated full stack generative AI platform, optimized for enterprise and government organizations. Delivered through SambaNova’s integrated AI platform, which can be deployed on-premises or through the cloud, SambaNova Suite seamlessly integrates into existing business processes to deliver transformative capabilities. With the capacity to be further refined using customer data, these models can deliver unparalleled accuracy while providing enterprise grade security and data governance.

Learn more

