

# Advanced Solutions Lab

## Machine Learning Immersive Education

The Advanced Solutions Lab for Machine Learning offers a truly unparalleled learning opportunity, with data science and engineering teams working side by side with Google machine learning experts to address critical business challenges and high priority AI initiatives. This fully immersive, and highly specialized, training offering is delivered over 4 to 5 weeks with a choice of formats: virtual classroom, on-site at a dedicated Google ASL training facility, or through a hybrid scenario with instructor-led training taking place at both a customer site and a Google ASL facility.

### Key Activities

#### Machine Learning Training

Google-provided training on machine learning techniques, TensorFlow architectures, hyperparameter tuning, synthetic features, distributed training, model deployment, multi-class neural networks, and serving architectures to create recommendation and classification models with Google Cloud ML.

#### Prediction Models

Guidance on recommendation systems, image classification, prepackaged models, and APIs.

### Prerequisites

To get the most out of the program, attendees should be comfortable programming and have basic or intermediate knowledge of machine learning.

- How Google does Machine Learning
- Launching into Machine Learning

Customers with extensive machine learning experience may find other Google offerings more suitable to their level

#### Training around machine learning concepts and techniques::

- Machine learning fundamentals and Cloud tools overview
- TensorFlow deep dive
- Hyperparameter tuning
- Synthetic features
- Distributed training
- Model deployment
- Data preprocessing with DataFlow and TensorFlow
- Sparse features and text models
- Time Series models
- Image classification
- Prepackaged models and Google Cloud Machine Learning APIs
- Supplemental advanced topics may be covered (MLOps, GANS, Reinforcement Learning, Explainable AI, Recommendation Systems)

#### Scope, Requirements, and Pricing

- Four or five weeks machine learning training and deep dive
- Three Format Options: Google ASL facility, virtual classroom, or hybrid in-person option
- Maximum 5 participants at Google ASL site or 16 learning virtually
- Includes one year on-demand training licenses for Google Cloud Skills Boost powered by Qwiklabs\*
- Customer team should include engineers/data scientists with basic understanding of machine learning
- Contact Google representative for pricing (price to be set forth in the applicable Order Form). Requests for additional students require Google approval and are subject to additional fees per student.
- Non-refundable

\*Unless an exception for another Fulfillment Partner is granted by Google. A Fulfillment Partner is the entity or platform that hosts the training content.

#### **Standard ASL Immersive Education Bundle (STD-ASL-PHASE1-BUNDLE):**

Standard Immersive ML Training Experience.  
Delivered at Google ASL Facilities.  
Four weeks for up to 5 participants.

#### **Onsite ASL Immersive Education Bundle (ONS-ASL-PHASE1-BUNDL):**

Combines delivery at customer site (up to 16 participants) with open project work at ASL training facility (up to 5 participants). Two modules of two weeks each. training facility (up to 5 participants). Two modules of two weeks each.

#### **Virtual ASL Immersive Education Bundle (VIR-ASL-PHASE1-BUNDL):**

Immersive ML training experience delivered remotely, via video conference. Five weeks for up to 16 participants.

Terms and Conditions: This datasheet is associated with the following SKUs: ASL-PROF-SVC-PHASE1, STD-ASL-PHASE1-BUNDLE, ONS-ASL-PHASE1-BUNDL, and VIR-ASL-PHASE1-BUNDL. The Services described in this datasheet are governed by the applicable fully signed Ordering Document and any incorporated terms and conditions.