

# TRAIN

Automated model development  
to power your decision analytics

TRAIN is the knowledge builder within your next-  
generation solution stack.



## TRAIN your cognitive models in 1 week not 12 months



### The Challenge

- The inaccessibility of high-quality training data blocks most attempts at leveraging AI within any organization
- Manual attempts to create training data are expensive, time-consuming and destroy ROI
- Even “successful” attempts can take more than a year to complete, with no certainty of results
- Multiple business cases with no model reusability impairs any potential for scaling

### Ideal Solution

- A machine capable of building knowledge models, for specific enterprise domains, even when training data is sparse.
- The resulting models must power multiple smart applications
- A learning platform able to create diverse models, even with significantly limited training data
- TRAIN enables a highly unsupervised process; human-machine interaction only required during validation
- Ready with comprehensive toolkits to deploy in real-world business solutions

### Desired Outcomes

- Flexible and easy to use:** TRAIN is use case agnostic and domain-focused. Packaged all components / services for seamless deployment in Azure stack
- Customized ML models :** SME intelligence can easily be blended with machine discovered knowledge.
- Model accuracy :** Steep learning gradient achieves ~90% accuracy in fewer iterations
- Application integration :** Easy access to knowledge models and toolkits availability for downstream integration.
- Quick cycle for experiment :** Complete a full cycle business solution experiment /proof of concept in 30 to 45 days



TRAIN

# High quality learning to power digital transformation in the Microsoft Azure Cloud



## Create extensive and durable cognitive models with Parabole.ai and Microsoft Azure

### QUALITY KNOWLEDGE

- Seamless blending of human knowledge with machine-discovered knowledge delivers high precision, high accuracy performance
- No need for high-quality training data
- Models created in a fraction of the time relative to historic industry methods

### EASE OF USE

- Unsupervised training reduces the need for expert involvement in building training data.
- Powerful yet lightweight training platform enables domain-specific search capabilities.
- learning pipeline setup in 3 days
- Output is consumable in 1000s of decision analytics

### ENTERPRISE SCALE

- **Microsoft Azure** gives unprecedented scale, security and support required to bring enterprise-grade learning
- Coverage – multiple use cases within any domain, enterprise-wide applications
- One-time learning, long term applicability

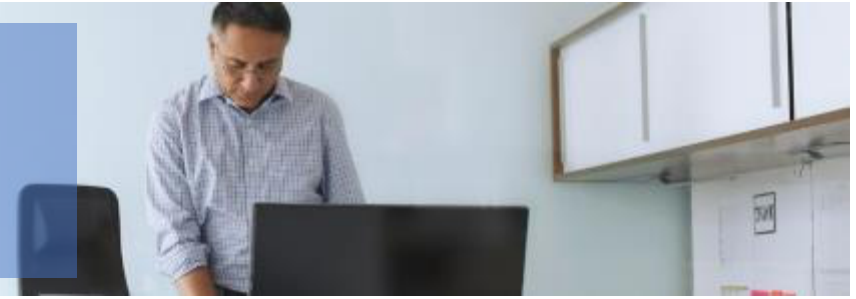
### Ecosystem friendly

- Terraform/AKS based deployment, all components, services packaged for public /private tenant deployment
- Supports Relational DB, SQL DB, Triple store, Graph DB technologies.

Enterprises are the owners of vast knowledge about their organization, Parabole.ai on Azure allows you to find and use this knowledge in real-time with stunning accuracy.

# TRAIN from Parable.ai

developed on Microsoft Azure Cognitive Services



Parable's *TRAIN* is an *unsupervised* cognitive model development platform that enables users to train their AI models to power downstream smart applications.

## Lightweight training

- TRAIN works even when high quality training data is insufficient
- No data curation or pre-processing required
- A lightweight training system (unsupervised) that allows an organization to train cognitive models with human intervention limited to validation



## Expansible dimensions

- TRAIN creates ultra-high dimensional (500+) to low dimensional (5+) models. Users may choose appropriate dimension and space based on use case requirements
- Custom dimension allows you to build your own metric/vector space for respective analytics
- Minimal training pipeline enables unprecedented speed-to-market.



## Multiple techniques

- Both linguistics and probabilistic models complements
- Probabilistic Methods: provides optimized long-text representation
- Linguistic Methods: extracting sentence structure through syntactic dependency

