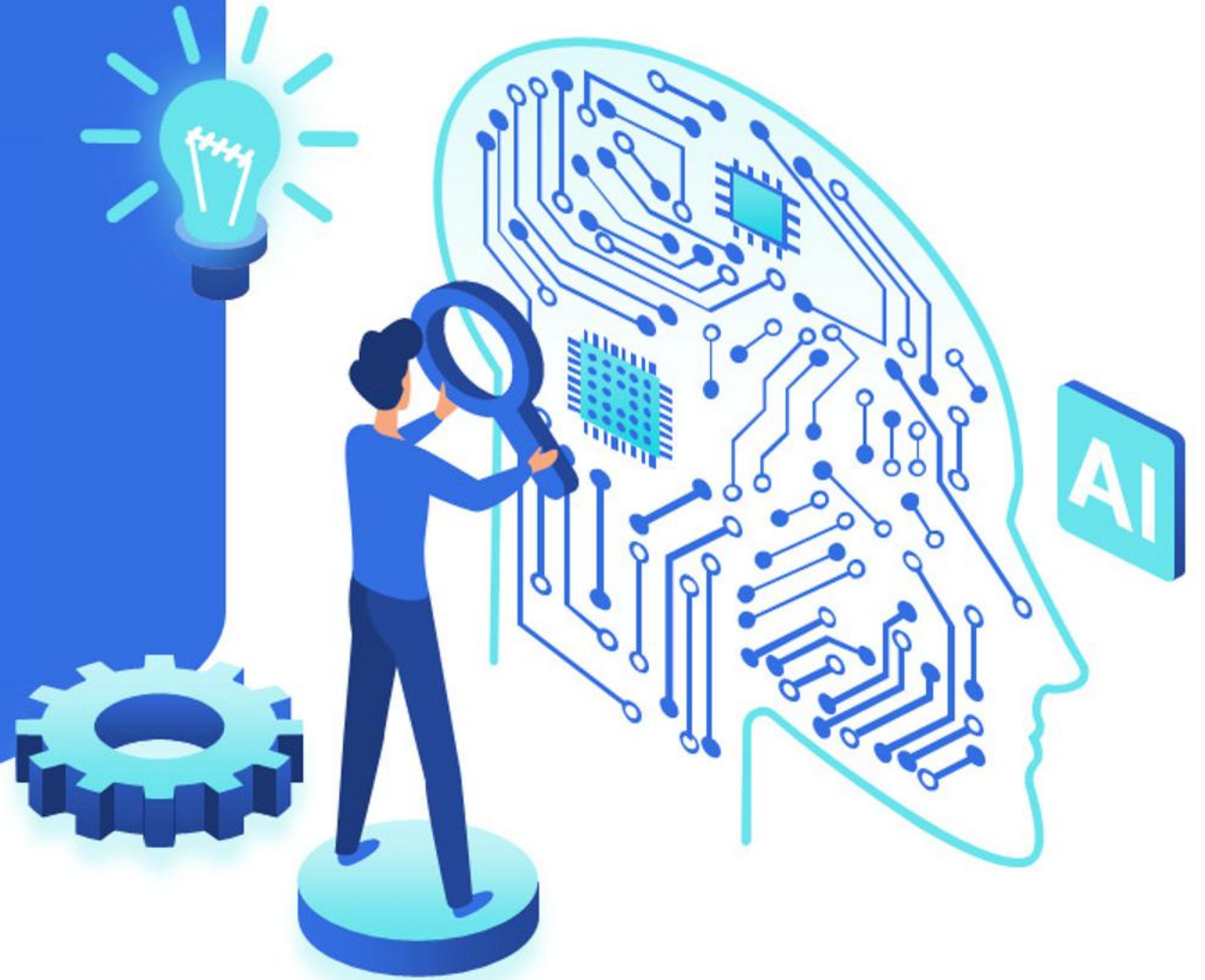
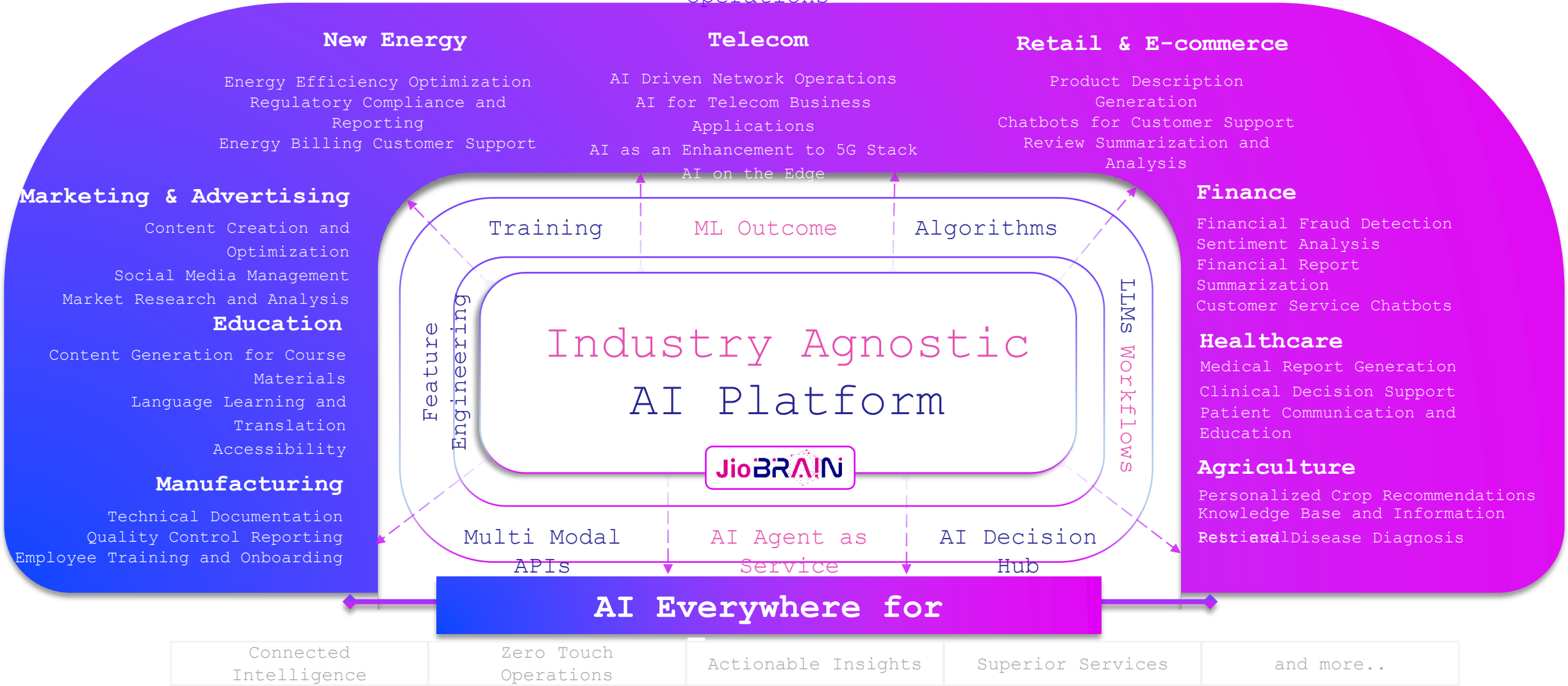


# Jio Brain Platform



Jio Brain enables the service provider and enterprises to turbo charge their business and service operations



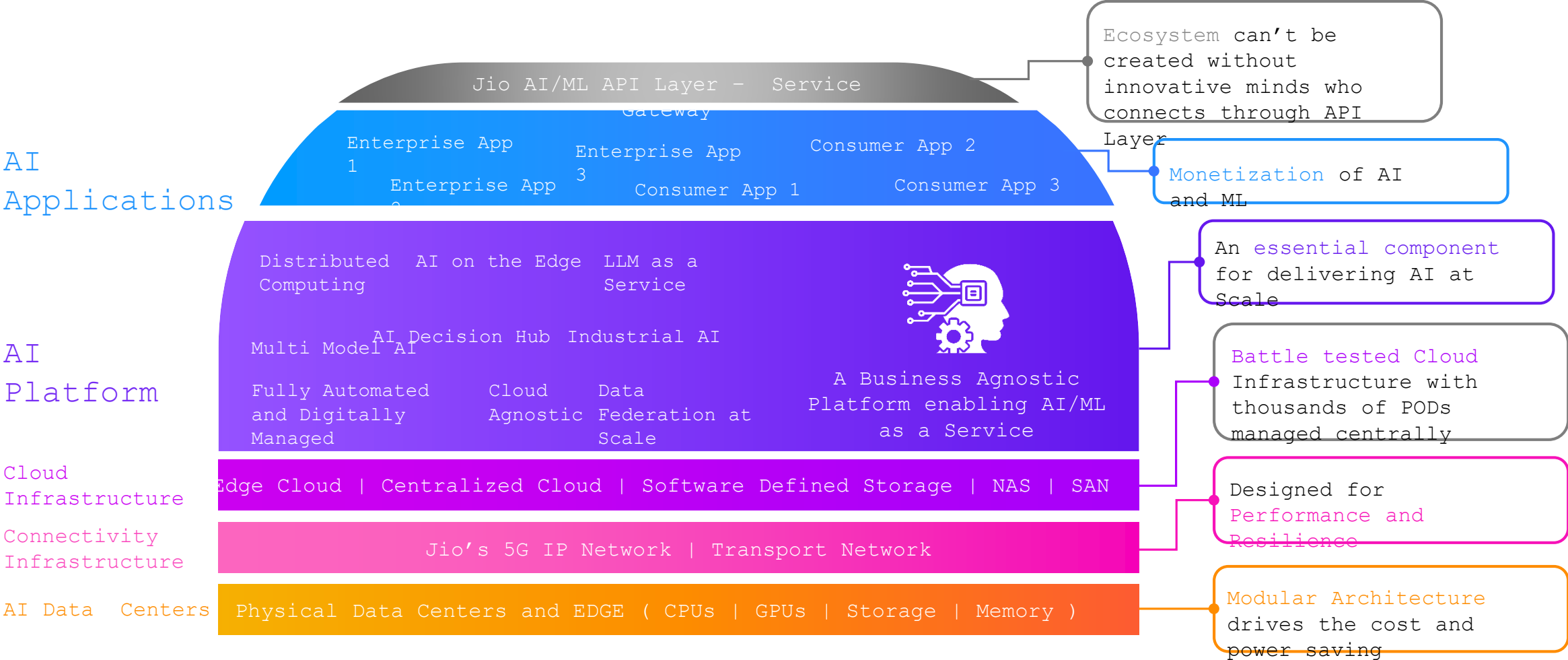
Tangible benefits to customers, services and business operations.

1. Jio Brain Foundational Model Training & Fine Tuning as a Service
2. Jio Brain's AI Decision Hub
3. Real-time data aggregation using the Jio Brain Data Federation Platform
4. Distributed Machine Learning with ML on the Edge
5. Jio Brain RTAS (Real Time AI Service)
6. Jio Brain Distributed Machine Learning Platform
7. Jio Brain Real-Time LLM
8. Ability to Connect 3rd Party LLMs
9. Multi-lingual capabilities
10. Jio Brain API Service Gateway
11. Jio Brain Metering of API for Monetization
12. Jio Brain Speech AI
13. Jio Brain Summarization Model
14. Jio Brain Industrial AI Algorithms
15. Jio Brain Model Chaining / Pipelining
16. Jio Brain Data Connectors for Federation
17. Jio Brain Image AI Platform
18. Jio Brain Video AI
19. Jio Brain Auto Hyper Parameter Tuning
20. Selective ML model processing
21. Best Fit Model for Given Input Set and Auto Retraining of Models
22. Bring Your Own Model
23. Data Visualization of Input data for Feature Engineering
24. Closed loop action in conjunction with Jio AI Decision Hub
25. Support for Deep Learning Algorithms and Neural Networks
26. Jio Brain Avtaar Creation
27. Jio Brain Prompt based Image Generation
28. Jio Brain Colouriser / Decolouriser
29. Jio Brain Background Removal
30. JioBrain Training GPUs as a Service as part of JIoBrain AI as a Service



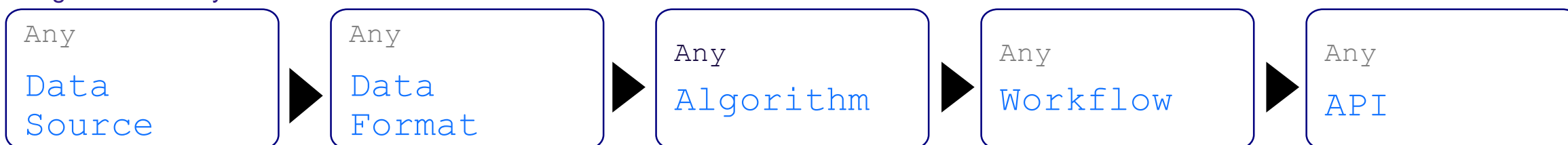
**JioBrain is an industry-agnostic distributed machine learning platform that lets any operator or enterprise institutionalize ML in day-to-day operations**

JioBrain is a distributed machine learning platform that can train and apply ML models for any business vertical.



- Training as a Service
- Feature Engineering as a Service
- Hyperparameter Tuning as a Service
- ML Chaining as a Service
- LLM As a Service
- Algorithms as a Service
- Coding as a Service
- Code Quality As a Service
- Workflows & SI as a Service
- Image Recognition as a Service
- Video Recognition as a Service
- Video Generation Gaussian Splatting as a Service
- Image Generation as a Service
- **Bring Your Own Model** as a Service

Integrates with Any



No Coding Required

JioBrain supports **100+** out-of-the-box algorithms spanning across clustering, regression, and forecasting. This wide range of ready-to-use models provides users with diverse options to choose from based on their specific needs and data requirements.

## 100+ Out-of-the-Box Algorithms

1. Linear regression	28.Negative Binomial Model	56.Smith-Waterman algorithm	79.Gradient Boosted Trees LightGBM
2. Logistic regression	29.Exponential Smoothing	57.Fast Dynamic Time Warping (FastDTW)	80.Multinomial NB( naïve bayes)
3. GBT	30.Singular Spectrum Analysis (SSA)	58.Singular Value Decomposition (SVD)	81.Linear Discriminant Analysis (LDA)
4. Isotonic	31.OneclassSVM	59.Non-negative Matrix Factorization (NMF)	82.Quadratic Discriminant Analysis (QDA)
5. Random forest	32.XGBoost	60.Independent Component Analysis (ICA)	83.Neural Networks e.g., Multi-Layer Perceptrons (MLP)
6. Decision tree	33.Histogram-based outlier score	61.Convolutive ICA	84.AdaBoost
7. tbats	34.Local Outlier Factor (LOF)	62.Kernel ICA	85.Bagging Classifier
8. Sarima	35.Autoencoders	63.Hierarchical Temporal Memory (HTM)	86.Extra Trees Classifier
9. Arima	36.K-nearest neighbor: k-NN	64.Quantile Regression	87.Stochastic Gradient Descent (SGD) Classifier
10.Prophet	37.Support Vector Machine (SVM)	65.Slow Feature Analysis (SFA)	88.Ridge Classifier
11.Holtwinters	38.Connectivity-based Outlier Factor (COF)	66.Jensen-Shannon divergence	89.Kernel Approximation Methods e.g., Radial Basis Function (RBF)
12.Autoregression	39.Naïve Bayes Classifier Algorithm	67.Hamming Distance	90.Nearest Centroid Classifier
13.NeuralProphet	40.Isolation Forest	68.Manhattan Distance	91.One-vs-Rest (OvR) and One-vs-One (OvO)
14.Exponential Smoothing (ES)	41.Robust Covariance	69.Euclidean Distance	92.Passive Aggressive Classifier
15.Vector autoregressive (VAR) model	42.Kernel PCA	70.Minkowski Distance	93.Label Propagation
16.Vector error correction (VECM) model	43.Principal Component Analysis (PCA)	71.Feature Selection-Based Outlier Detection (FSOD)	94.Naive Bayes
17.Generalized Linear Models (GLM)	44.Gaussian Mixture Models (GMM)	72.Deviation-Based Outlier Detection (DBOD)	95.Neural Networks
18.Radial Basis Function Networks (RBFN)	45.Hidden Markov Models (HMM)	73.Distance-Based Outlier Detection (DBOD)	96.Policy Gradient Methods
19.Learning Vector Quantization (LVQ)	46.Long Short-Term Memory (LSTM)	74.support vector machine	97.Polynomial Regression
20.Self-Organizing Map (SOM)	47.Generative Adversarial Networks (GAN)	75.naive bayes Gaussian NB	98.Transfer Learning
21.CatBoost	48.Variational Autoencoders (VAE)	76.k-mean clustering	99.Transformer Models (e.g., BERT, GPT, T5)
22.LightGBM	49.k-Means	77.K-Nearest Neighbors (KNN)	100.t-Distributed Stochastic Neighbor Embedding (t-SNE)
23.Gradient Boosting Machines (GBM)	50.Hierarchical Clustering	78. CART (Classification and Regression Trees)	101.Co-training
24.Partial Least Squares Regression	51.DBSCAN		
25.Multivariate Adaptive Regression Splines (MARS)	52.OPTICS Algorithm		
26.Long Short-Term Memory Networks (LSTM)	53.Mean-Shift Clustering		
27.Gated Recurrent Units (GRU)	54.Subspace Outlier Detection (SOD)		
	55.Anomaly Detection Using Binomial Test		



Thank You

