



AUTO MACHINE LEARNING AND MACHINE LEARNING OPS

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AVISO ENTERPRISE MACHINE LEARNING



Customer Data

CRM
ERP
RDBMS
HCM
Email / Calendar
Conference Call



Ensemble Models

Speech Technology

Natural Language
Processing

ML Core

Variable Transformation

Feature Extraction

Model Selection

Hyper Parameter Tuning

Model Building

Predictive Analytics

Time Series
Forecasting

Optimization

Recommendation
Engine

AI Insights

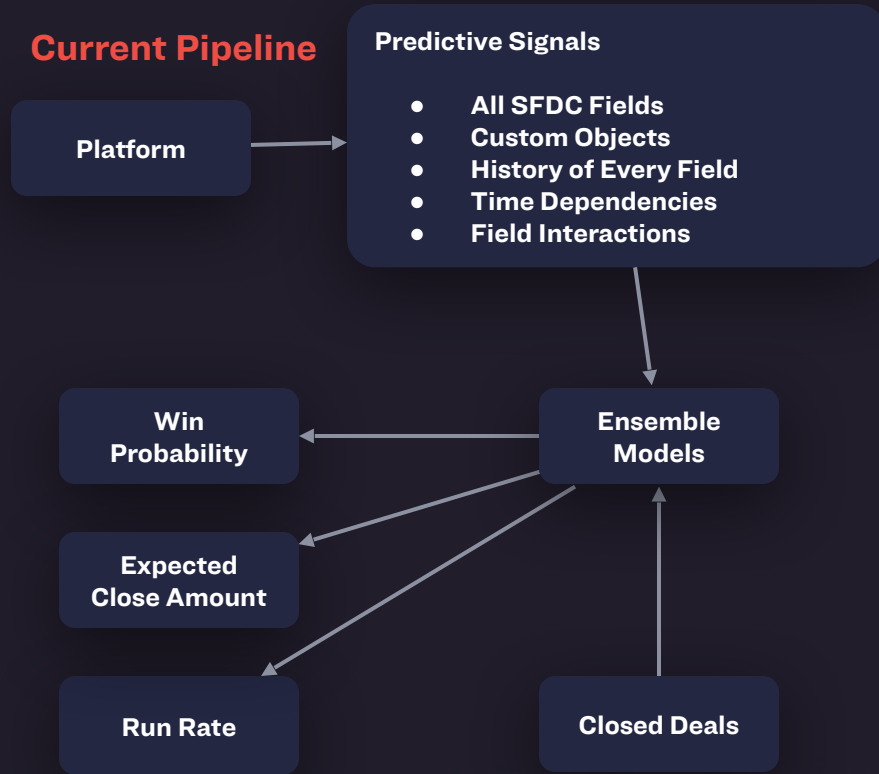
Sales Forecast
WinScore
Booking Timeline
Pull-In / Pacing
Pipeline Build / Health
Forecast Insight
Notification
Meeting Transcripts
Activity Relationship
Activity Autologging
Score History
Forecast Explanations
Milestone Projections
Deal Amounts
People Matching
Ideal Customer Profile



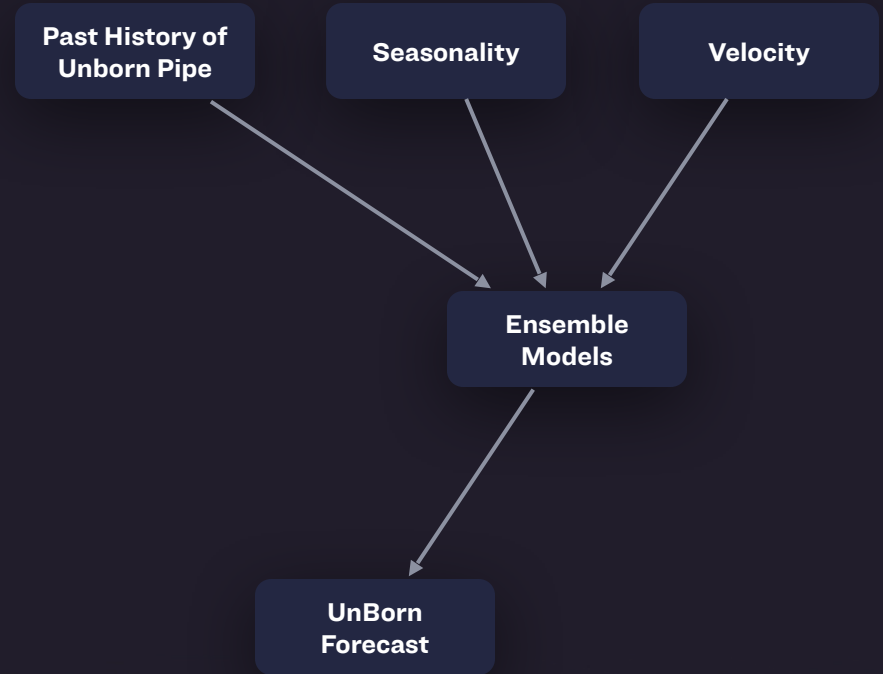
FACTOR BASED MACHINE LEARNING ALGORITHMS



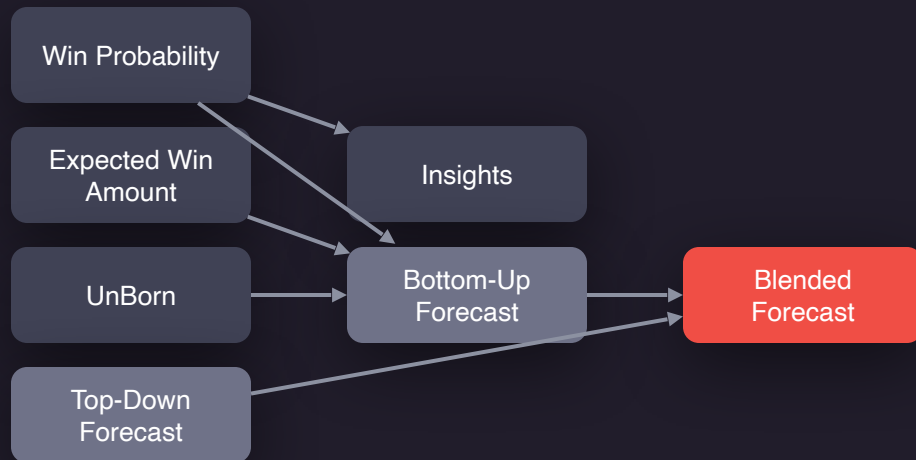
Current Pipeline



UnBorn

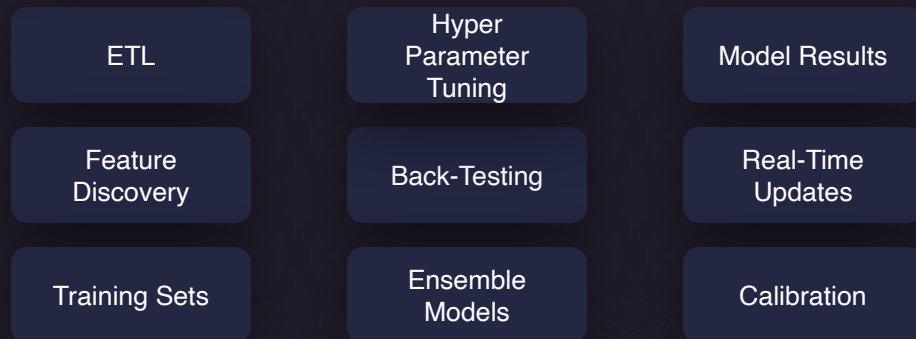


MACHINE LEARNING CORE



Enterprise Grade ML

- ETL that adapts to data and business process changes
- Automated discovery of time-related features
- Training sets based on time horizons
- Framework for backtesting at relevant operating cadence
- Calibration for best accuracy
- Fast path for real time data updates
- Core algorithms are open-source



MACHINE LEARNING CORE



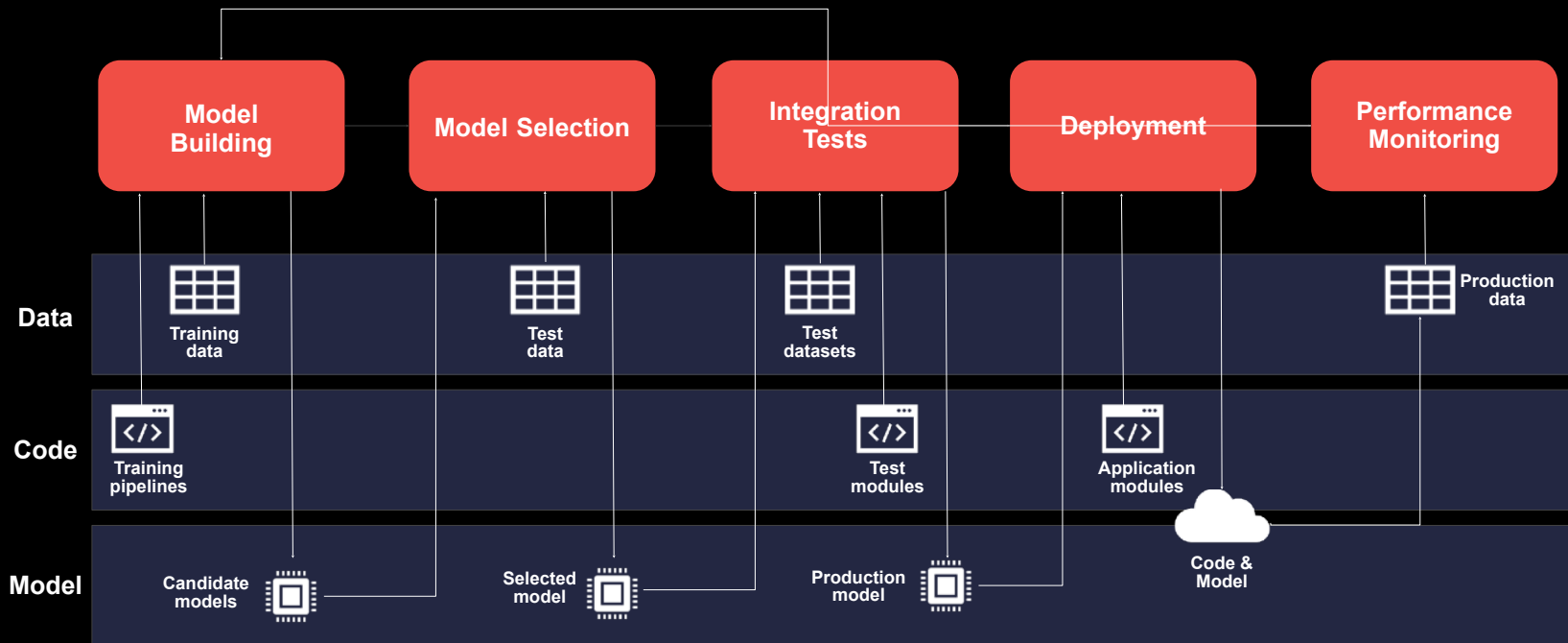
Ongoing Prediction Pipeline

- On an ongoing basis, our prediction pipeline automatically ingests and maps new data from source systems, trains models and makes predictions.
- Produces WinScores and Aggregate Forecasts for different horizons on an ongoing basis by blending an ensemble of ML models
- ML models are automatically trained and serialized as needed using training sets lazily extracted from temporal data store
- Most aspects of this pipeline are governed by a configuration file that allow us to make reasonable guarantees about smoothness and reproducibility.

Ad Hoc Reconfiguration Pipeline

- Produces a set of recommendations for optimal configuration to be used in the ongoing prediction pipeline for WinScores, starting with a base of training data used for historical predictions
- Provides recommendations for many settings that govern model performance.
 - Modeling training + Blending strategy, e.g. independent Quarterly or aggregated Monthly predictions.
 - Learning algorithm: Currently model training framework supports GBM and XGB but others can be prototyped here.
 - Hyperparameter values.
 - Features to be extracted and selected.
- Supports custom error metrics and feature selections strategies.
- Allows prototyping new feature extraction or model blending strategies without fully implementing them in production.

ML OPERATIONS





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