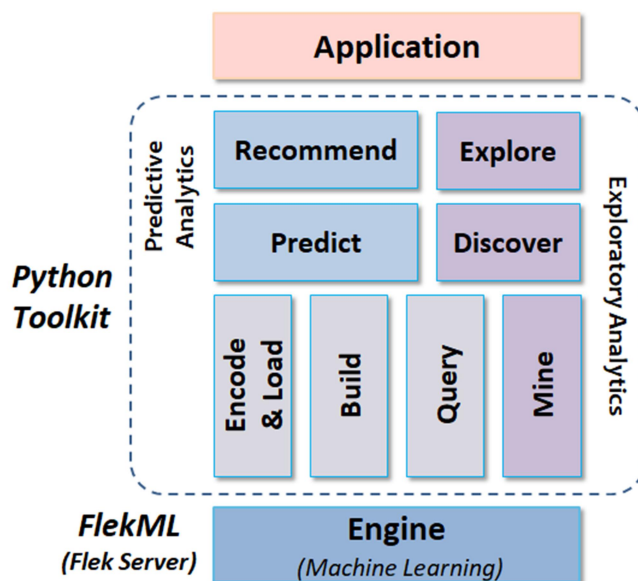


Flek ML Pipeline

Framework Stack

The Flek Machine is a unified probabilistic framework for advanced AI Analytics.

Flek powers a stack full of components specifically designed for running both exploratory and predictive analytics at the same time.

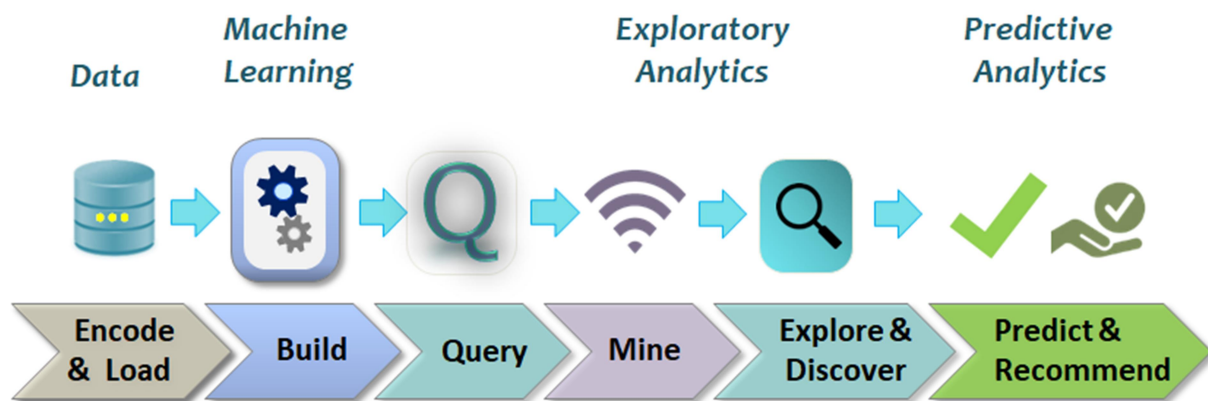


From a user's standpoint, running analytical tasks is much simpler since data preparation, model building, querying, mining, auto-discovery and visual exploration are all fully integrated within the same Python Toolkit.



Pipeline Flow

Flek offers a fully integrated pipeline where each activity is supported by a distinctive API tailored to its particular functionality and related tasks. What makes the pipeline work seamlessly is that it is all driven by the machine learning engine and core Probability Machine inside.



- I. **Encode & Load.** Converts raw data and prepare it for ML
- II. **Build.** Using ML algorithms, the FlekML engine builds the probabilistic model and then stores the generated Nuggets into memory, file or database.
- III. **Query.** Fetches the stored Nuggets from the engine.
- IV. **Mine.** Iteratively scan the model store for Nuggets.
- V. **Explore.** Search for probabilistic patterns, visualize and tabulate as also trace and validate results
- VI. **Discover.** Auto-discover interesting associations, rules, anomalies or causal relationships.
- VII. **Predict.** Run both forward and backward prediction and classification activities.
- VIII. **Recommend.** Perform both profile and item based recommendation tasks.



About GoFlek

Revolutionizing how businesses tackle complex AI endeavors, GoFlek offers the Flek Machine – a unified framework for AI Analytics.

The company was founded in 2017 by a team who are dedicated to this vision. Their goal is to develop the next generation of AI toolset that allows AI citizens to build complex models, run both exploratory and predictive analytics activities as well as develop advanced probabilistic programs that can be deployed on premise or over the cloud.

For more information please download *Flek Ecosystem.pdf* and *Flek Primer.pdf* from our site: www.goflek.com/downloads

