

# Perceiver

Perceiver (tm) is a unique platform for generating models and algorithms with a focus on data mining.

# Contents

Description	3
Problem	4
Solution	5
User or Customer Base	6
Team	7
Case Study	8
Seeking	9

### Description

Perceiver (tm) is a unique platform for generating models and algorithms with a focus on data mining. The product solves optimization problems based on the data provided; with unlimited applications. Perceiver constructs a variety of algorithms or mathematical models that achieve the level of fitness you require through a Darwinian model (evolution). The important thing is that the product finds relationships between the different examples given and then builds the optimal model depending on configuration; far exceeding what is possible by an expert team in data mining, artificial intelligence, or data science.

Perceiver is automatic and tireless, and most importantly, makes no assumptions. The product builds or configures the model that best relates to information provided by the data; achieving in the process the desired fitness level. Because it generates computer programs as output, Perceiver gives you the opportunity to build complex software projects using the code provided. It also enables you to immediately develop intelligent hardware devices.

# **Problem**

Despite Huge AI Advancements...
It Still Gives Us Suboptimal Guidance
Every Day in Every Industry

A recent survey suggests that **68%** of organizations have room for **improvement** in their decision making.



# Problem

### Despite Huge Al Advancements...

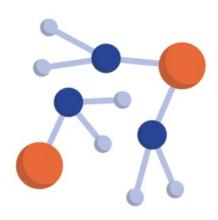
Leading AI products are a **black box** which is not acceptable for applications where you must understand the "**thought process**" such as portfolio management, route planning, and healthcare.



# Problem

### Despite Huge Al Advancements...

Al has **reproducibility issues** where outcomes are not consistently replicated or understood.



# Problem

# Despite Huge AI Advancements...

The **world is ruled by algorithms** and current ML requires humans to discover and test models which introduces their **biases**, **blind spots**, and **slow pace** compared to a machine.



# Enter **Perceiver**™

### The Premier Optimization Al

- Perceiver is a machine learning based optimizer.
- It generates algorithms and predictive models as the result of optimizing against a training dataset.
- Output is immediately inspectable and usable.
- Can use an existing algorithm as the starting point.
- Has produced superior performance across very different domains.

# **Perceiver** ™

### Works Out of the Box

- Requires minimal human intervention.
  Eliminates the need for a data scientist to preanalyze how the data behaves.
- Uses a novel form of genetic programming.
- Makes no assumptions. It only uses observed data patterns to determine the optimal model.



# Perceiver™

### Is scalable and has a multitude of applications

- Built for large datasets using distributed programming principles.
- Not limited to pre-existing models.
  Perceiver creates complex models using intelligent cross-dataset relationship analysis.



# Has a Wide Array of Applications Across Many Domains

Logistics



- > Airline fuel tankering
- Fleet optimization

Financial Services



- Investment signal generation
- Early identification of defaults
- More accurate credit rating

## As Alums of Some Very Tech Savvy Organizations, We Are Passionate About Getting Al Right



Howie Altman CEO

- 20 years experience across multiple industries.
- Managing Partner of Actualize.
- Bridgewater Associates, Hello Alfred, Axial, Bonobos, Scouted, Semsee.
- Computer Science degree from the University of Illinois at Urbana-Champaign.



José Bonetti COO

- 15 years experience across multiple industries.
- Partner of Actualize.
- Founder of GBH, a unique 70 person product development company.
- Master's in Software Engineering from Carnegie Mellon.

## As Alums of Some Very Tech Savvy Organizations, We Are Passionate About Getting Al Right



Milton Hernández CTO

- 25 years experience across multiple industries.
- Partner of Actualize.
- Google, Bridgewater Associates, Axial.
- ML and optimization expert.
- Computer Science degree from the Instituto Tecnológico de Santo Domingo.



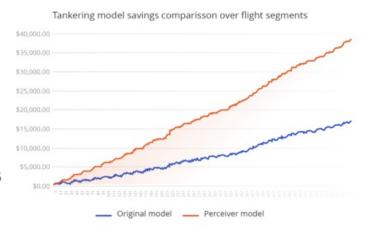
Ed Bendy CPO

- 25 years experience across multiple industries.
- Razorfish, Travelocity, Plusgrade, Semsee.
- BS from Stanford, MBA from Kellogg.



### Case Study

- Fuel accounts for 40% of an airline's operating costs.
- For a publicly traded commercial airline, Perceiver produced 130% savings against their existing fuel tankering model for flights departing from only one hub! Projected USD \$6.5 MM savings nationwide in a year.



# **Investment Signal Generation**

# Case Study

In an 22 month trial using the EUR/USD currency pair and gold futures, Perceiver produced greater than 53.98% average signal strength.



# **Investment Signal Generation**

### Case Study

And over 200% cumulative returns.



### Seeking

# We Want To Work Together We're looking for select domain experts in logistics and financial services to join this exciting journey with us! Howie Altman howie@actualizepartners.com +1 (203) 308-1921 www.perceiver.io Actualize Partners