

# Machine Learning with H<sub>2</sub>O

H<sub>2</sub>O.ai

# Company Overview

Founded	2011 Venture-backed, debuted in 2012
Products	<ul style="list-style-type: none"><li>• <b>H<sub>2</sub>O Open Source In-Memory AI Prediction Engine</b></li><li>• Sparkling Water</li><li>• Deep Water</li><li>• Steam</li></ul>
Mission	Operationalize Data Science, and provide a platform for users to build beautiful data products
Team	<p>70 employees</p> <ul style="list-style-type: none"><li>• Distributed Systems Engineers doing Machine Learning</li><li>• World-class visualization designers</li></ul>
Headquarters	Mountain View, CA

# Scientific Advisory Council

Springer Series in Statistics

Trevor Hastie  
Robert Tibshirani  
Jerome Friedman

## The Elements of Statistical Learning

Data Mining, Inference, and Prediction

Second Edition

 Springer



### Dr. Trevor Hastie

- John A. Overdeck Professor of Mathematics, Stanford University
- PhD in Statistics, Stanford University
- Co-author, *The Elements of Statistical Learning: Prediction, Inference and Data Mining*
- Co-author with John Chambers, *Statistical Models in S*
- Co-author, *Generalized Additive Models*



### Dr. Robert Tibshirani

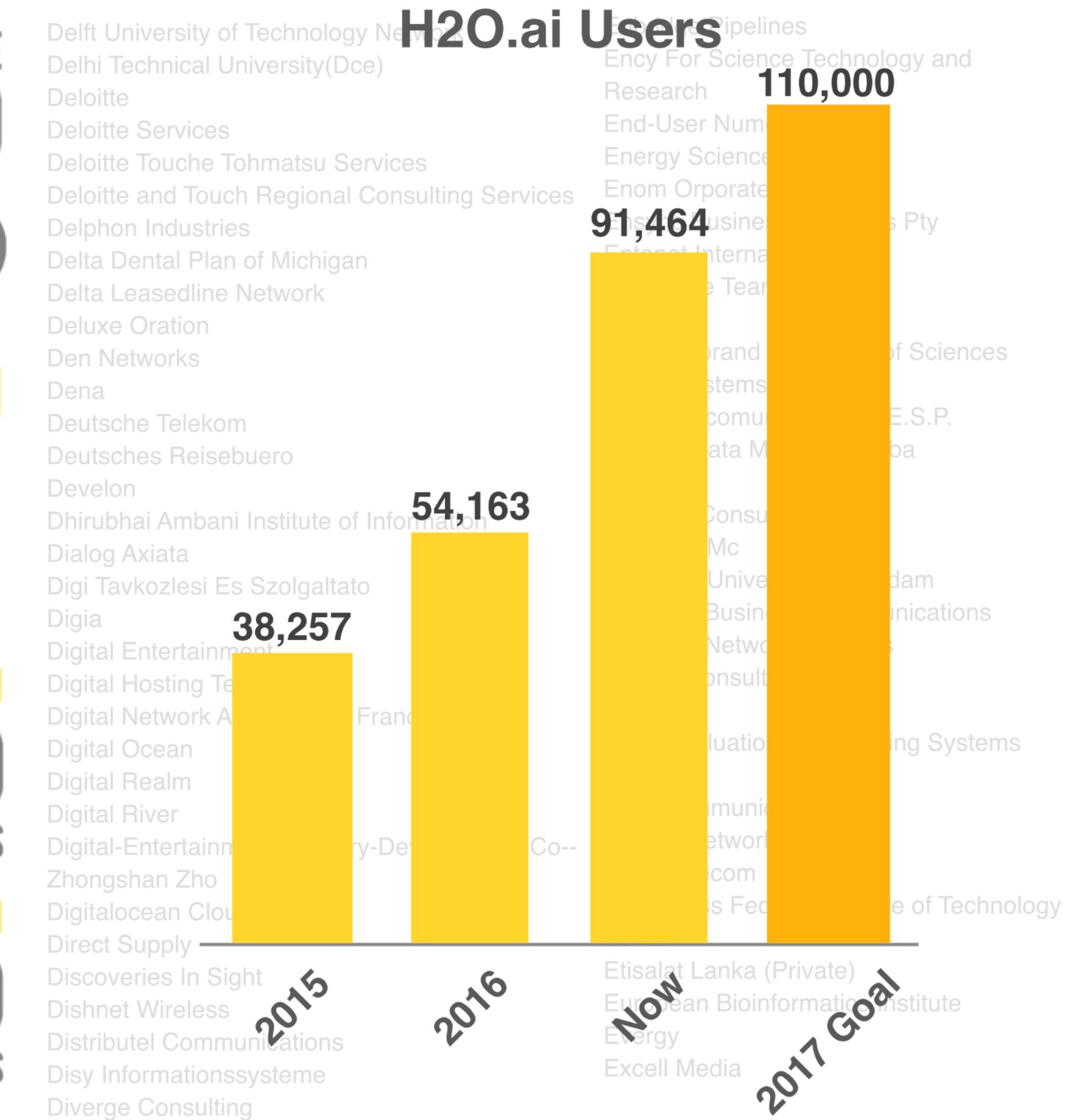
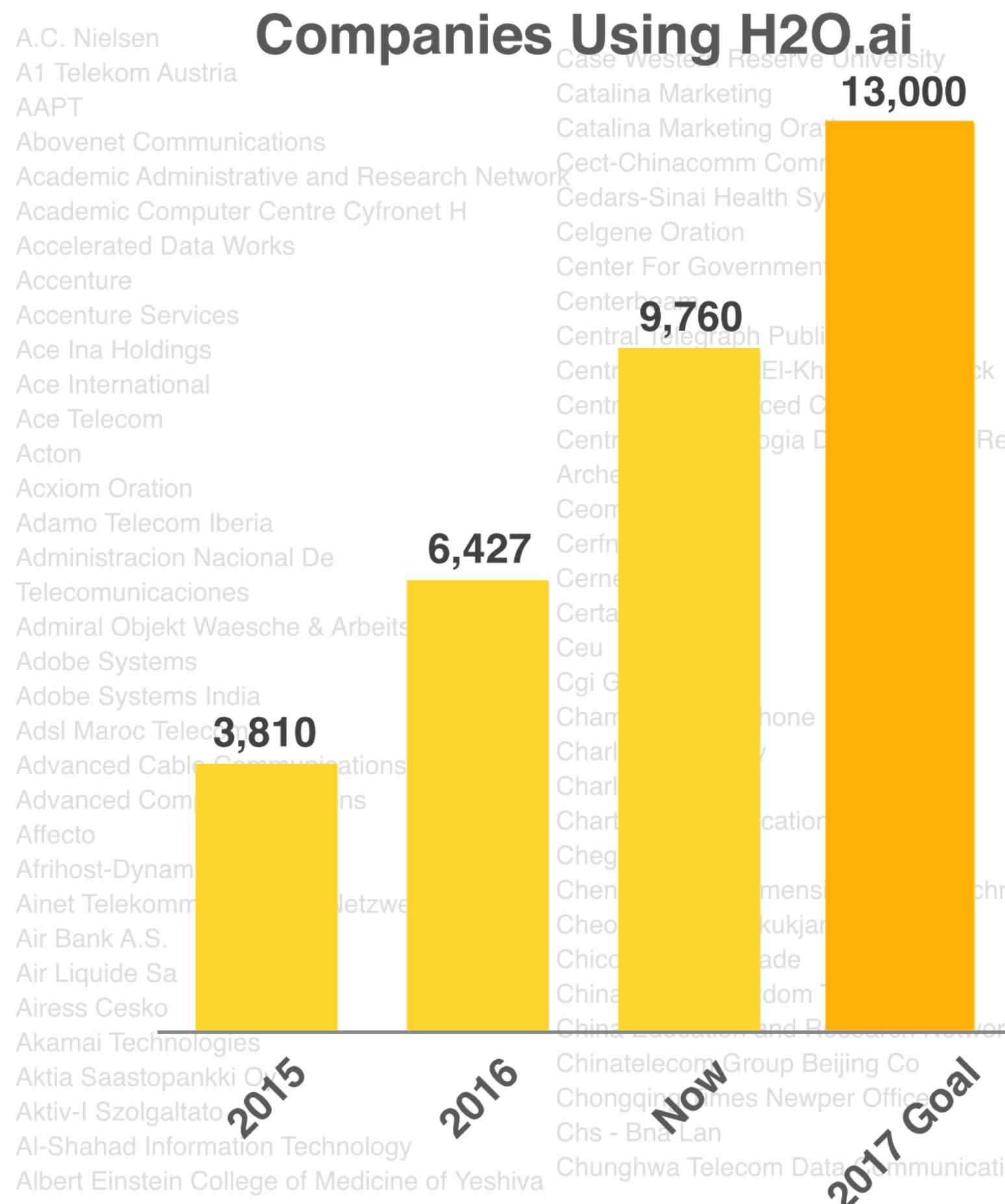
- Professor of Statistics and Health Research and Policy, Stanford University
- PhD in Statistics, Stanford University
- Co-author, *The Elements of Statistical Learning: Prediction, Inference and Data Mining*
- Author, *Regression Shrinkage and Selection via the Lasso*
- Co-author, *An Introduction to the Bootstrap*



### Dr. Steven Boyd

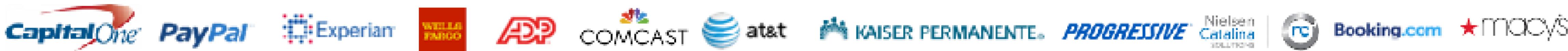
- Professor of Electrical Engineering and Computer Science, Stanford University
- PhD in Electrical Engineering and Computer Science, UC Berkeley
- Co-author, *Distributed Optimization and Statistical Learning via the Alternating Direction Method of Multipliers*
- Co-author, *Linear Matrix Inequalities in System and Control Theory*
- Co-author, *Convex Optimization*

# H2O Community & Fortune 100 customers



## Select Reference Customers:

**“Overall customer satisfaction is very high.” - Gartner**



# Select Customers

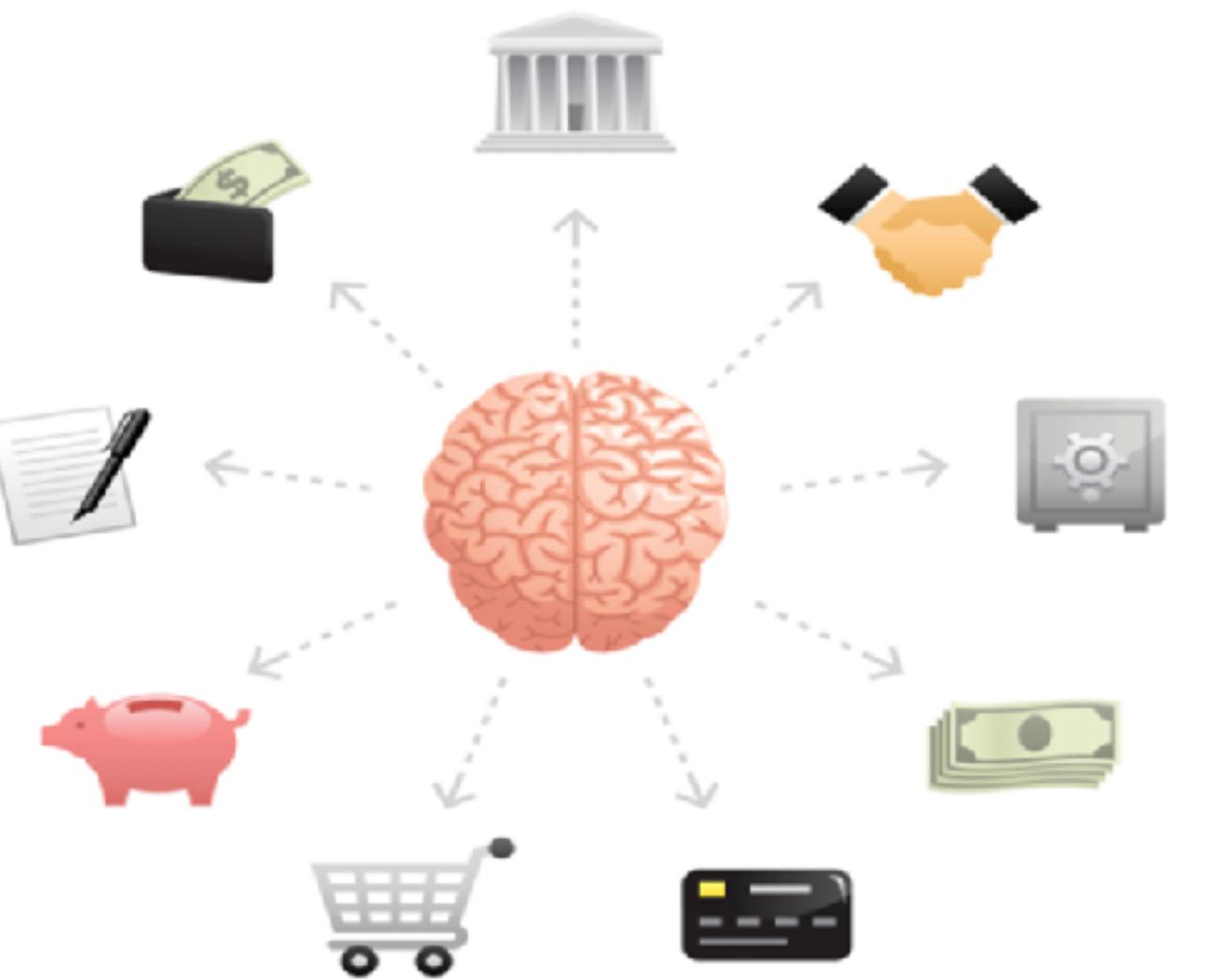


“Overall customer satisfaction is very high.” - Gartner

# AI in Financial Services

## Wholesale / Commercial Banking

- Know Your Customers (KYC)
- Anti-Money Laundering (AML)



## Retail Banking

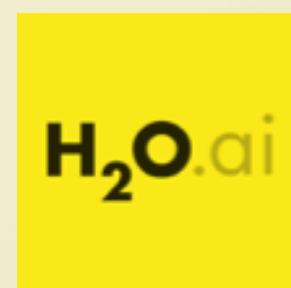
- Deposit Fraud
- Customer Churn Prediction
- Auto-Loan

## IT Infrastructure

- Security Cyberlake
- DoS Detection and Protection
- Master Data Management

## Card/Payments Business

- Transaction Frauds
- Real-time Targeting
- Credit Risk Scoring
- In-Context Promotion



# Community Expansion



15 Meetups a month

# Key Resources

- Website
  - <https://h2o.ai>
- Open Source Projects
  - <https://github.com/h2oai/h2o-3>
  - <https://github.com/h2oai/sparkling-water>
  - <https://github.com/h2oai/h2o4gpu>
- Downloads
  - <https://www.h2o.ai/download/>
- Support
  - <https://support.h2o.ai/>
  - [support@h2o.ai](mailto:support@h2o.ai)
- Documentation
  - <Https://docs.h2o.ai>
  - <http://docs.h2o.ai/h2o/latest-stable/index.html>
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