

Building Next-Level Analytics Solutions for our Customers

2predict: Outcome-Based Predictive Analytics

Privately held and located in Silicon Valley, we deliver next-level analytics solutions to companies interested in reducing costs and increasing revenue through data-driven business decisions. By applying AI techniques and algorithms, our experienced team of data scientists uncover insights and create predictive models from your big data. Our projects pay for themselves.

Capabilities

2predict's team are experts in computer vision, speech recognition, sensor data fusion, oil and gas, and image and audio processing across various field operations environments. Below are a few examples of our capabilities:

Predicting EV Public Charging Station Demand

We used: Charging station data residing in Snowflake database plus external vehicle route patterns

Our results: Discovered various correlations and created a predictive demand model to enable a much more intelligent infrastructure rollout. ROI is less capital spend and an increase in revenue per station as utilization rate is maximized

Predicting Drill Bit Failure

We used: Sensors that generated terabytes of drilling time series data from 100 channels of sensor logs

Our results: Built and trained a neural network (hybrid CNN-LSTM) enabling a Fortune 100 oil major to predict rig failures saving hundreds of thousands of dollars per well in downtime expense

Object Detection from Infrared Cameras

We used: Data from IR cameras in a jungle setting

Our results: Developed a CNN-based system to detect snakes in infrared time-lapse trail cameras in a nocturnal jungle setting

Object Population Detection from Drone Imagery for Conservation Study Purposes in Costa Rica

We used: Drone imagery data

Our results: Our model detected 8% more turtles than manual counts while effectively reducing the manual validation burden from 2,971,554 to 44,822 image windows. Our detection pipeline was trained on a relatively small set of turtle examples (N = 944), implying that this method can be easily bootstrapped for other applications, and is practical with real-world drone datasets.

Lumen Insights Solutions

Solution: Working with our partner Lumen Card Services, we help merchants leverage their payment processing data in other areas of their business -- providing next-level analytics and actionable insights to optimize customer service, product presentation, inventory management and marketing campaigns.

Expertise: Our Advanced Data Science Skills

2predict's team has decades of experience in Machine Learning (ML) algorithmic development, including the use of Python open source libraries, and creating custom algorithms to address specific customer needs. We use ML (unsupervised, supervised, and reinforcement learning), Deep Learning (CNN, RNN, LSTM), NLP and all the modern data science tools. Our data scientists offer unmatched skills and experience at a fraction of the cost of hiring and keeping data scientists in house.

Services Offerings for Your AI-Led Journey

AI Knowledge

Lunch and Learn Events

- One-hour events includes: overview of AI, business use case examples, and considerations for an AI strategy

Workshop Events

1. AI for Executives Workshop (covers general AI) – includes:
 - Process for developing strategy and roadmap
 - Data Engineering - concepts and techniques
 - Data Science - concepts, algorithms and uses
2. AI for Engineers Workshop – includes:
 - One day workshop for engineers
 - Hands on with Anaconda and Spyder or VC Code IDEs
 - Introduction to AI/ML model development.
3. Hands-on Workshop
 - Limited to 10 engineers with previous experience required: Python Skills, CS knowledge, Basic AI concepts

Analytics Strategy

Data Acquisition Strategy

2predict works with you to provide:

- Insights (basic and advanced)
- Sample of cleaned up (“denoised”) datasets
- Data audit and gap analysis
- Roadmap to get to problems/questions

Customer provides:

- Datasets
- Ideally, what problems/questions you would like to use data to help solve

Analytics Roadmap

2predict works with customer to develop roadmap consisting of:

- Insights
- Data audit and gap analysis
- Data acquisition strategy and roadmap
- Analytics roadmap

Customer provides:

- Datasets
- Product pitch and value prop
- Competitive matrix and positioning

Consultative Services

- Fractional Chief Scientist

Proof of Concept (POC)

Data Insights, Data Gap Analysis, Basic Models

Proof of Concept where goal is to show what is possible with sample datasets. 2predict works with you to provide:

- Insights (basic and advanced)
- Sample of cleaned up (“denoised”) datasets
- Data audit and gap analysis
- An analysis as to what needs to be done to get to predictive models

Inference Models

AI Algorithm Derived Statistical Models

- Where simple descriptive analytics method fails, use advanced statistical models to observe clusters of patterns, classify data points of interest, discover strong and weak correlations and disprove certain hypothesis

Model Maintenance

- Updates with latest datasets and tweaking of existing models, no new models

Learning Models

Predictive Models

Bespoke predictive models. Delivery includes:

- Denoised datasets
- Advanced insights
- Predictive models
- Knowledge transfer, including code and algorithm walkthrough

Prediction as a Service includes:

- Model maintenance, regular predictions and regular reporting

Contact Us

Learn how 2predict can provide insights into your data.

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2predict
next-level analytics