Stock Vision

Data-Driven Trading

USDEUR
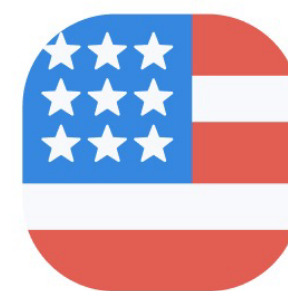
EUR **0.926419**

↑0.00041 / ↑0.04%

Action: **SELL**

Confidence: **98%**

Prediction timeframe: **19:00-23:00**

Problem

Jazz-ciggarette · 3y

I honestly believe it is way more difficult to make money in FOREX than on stocks to be honest my dude. Dont sike yourself out, and remember theres always money to be made. Dont jump on a high horse no matter the profits and keep reaching. I believe in you man <3 goodluck

I've lost 30+ accounts (i don't demo trade, i deposit a micro account of ~100 usd just to test stuff) and losing is now embedded in my psyche. Every time I make a loss, my mind is so broken, I bail and look for alternative methods. Many untested. And I try to alternate my strategy in the fly.

My story (still strugglin) and how Forex broke me in more ways than one + need support

we all know the stats, although I have yet to see them official somewhere. Nevertheless, 90-98% of traders fail.

Investor Nizzy 📈 💰 🌟 @MichaelNi... · 2h ···
No **Forex** trader has upto 5 of these;
- Stable mental health
- A good love life
- A good social affair
- No backbone pains
- Good eyesight
- Adequate **time** for 3-square-meal per day
- Early bedtime

TRADING WILL TAKE **TIME**

Especially if you're coming from a struggling background of which most people are!

1

Problem

90% of forex traders lose money

1 year - average time to learn intraday trading

5+ hours - traders spend each day to monitor markets

Solution

Use **Interpretable Machine Learning**
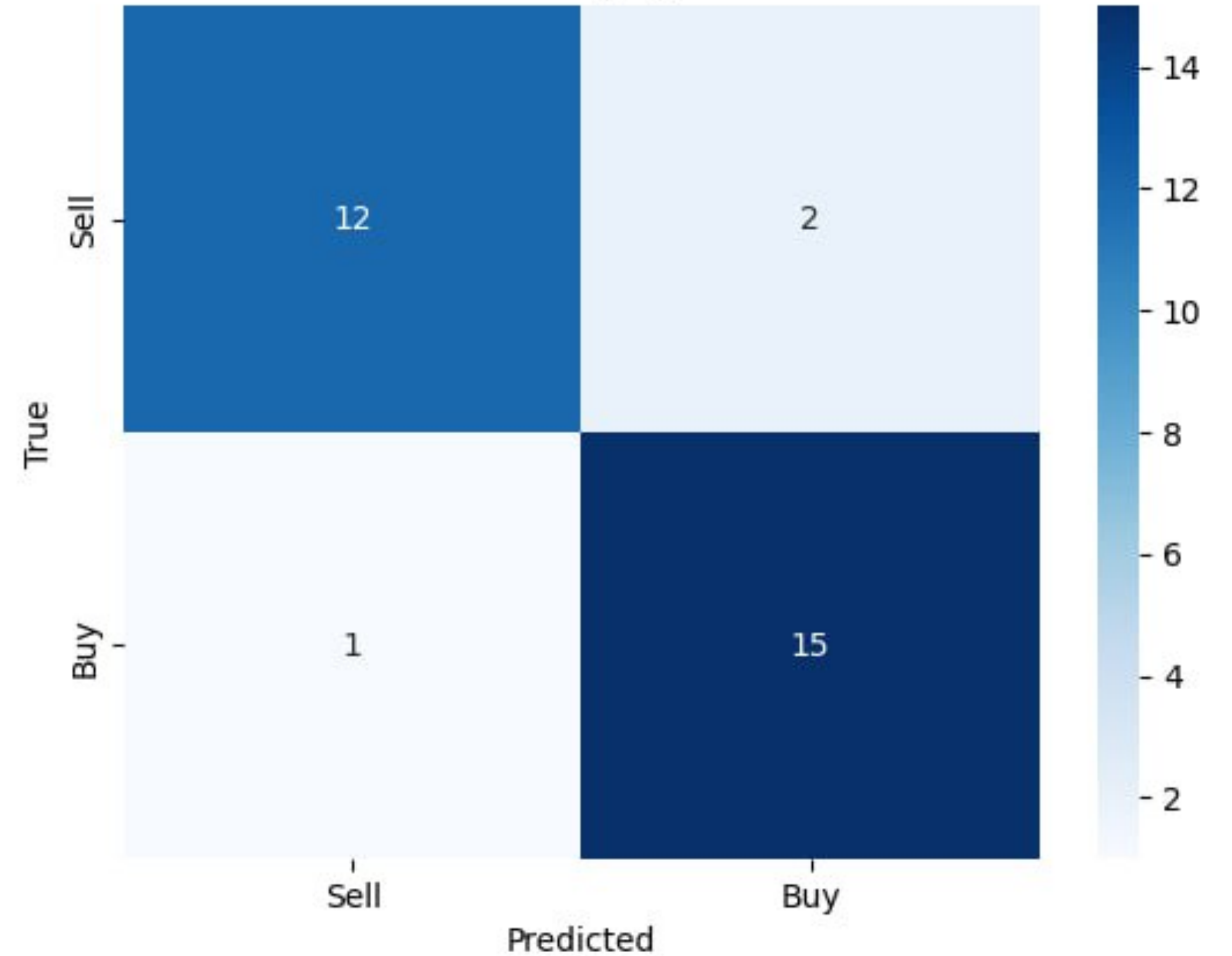to handle complex analysis

Product

A simple **mobile app** that sends
ML-backed signals

Stock Vision

Performance

90% accuracy

0.8889 F1 score

Stock Vision Performance on 3rd July, 2023 for the last 30 hours

Stock Vision

ML Model

Classification instead of regression

ML Model

Classification instead
of regression

Transformer architecture

ML Model

- **Classification** instead of regression

- **Transformer** architecture

- **Temporal Fusion** transformers

Abstract

Multi-horizon forecasting often contains a complex mix of inputs – including static (i.e. time-invariant) covariates, known future inputs, and other exogenous time series that are only observed in the past – without any prior information on how they interact with the target. Several deep learning methods have been proposed, but they are typically 'black-box' models which do not shed light on how they use the full range of inputs present in practical scenarios. In this paper, we introduce the Temporal Fusion Transformer (TFT) – a novel attention-based architecture which combines high-performance multi-horizon forecasting with interpretable insights into temporal dynamics. To learn temporal relationships at different scales, TFT uses recurrent layers for local processing and interpretable self-attention layers for long-term dependencies. TFT utilizes specialized components to select relevant features and a series of gating layers to suppress unnecessary components, enabling high performance in a wide range of scenarios. On a variety of real-world datasets, we demonstrate significant performance improvements over existing benchmarks, and showcase three practical interpretability use cases of TFT.

Keywords: Deep learning, Interpretability, Time series, Multi-horizon forecasting, Attention mechanisms, Explainable AI.

1. Introduction

Multi-horizon forecasting, i.e. the prediction of variables-of-interest at multiple future time steps, is a crucial problem within time series machine learning. In contrast to one-step-ahead predictions, multi-horizon forecasts provide users with access to estimates across the entire path, allowing them to optimize their actions at multiple steps in future (e.g. retailers optimizing the inventory for

*Corresponding authors
Email addresses: blim@robots.ox.ac.uk (Bryan Lim), soarik@google.com (Sercan Ö. Arık), nloeff@google.com (Nicolas Loeff), tpfister@google.com (Tomas Pfister)
[1]Completed as part of internship with Google Cloud AI Research.

Stock Vision

https://arxiv.org/abs/1912.09363

6

ML Service

📈 **Interpretable** predictions

ML Service

📈 **Interpretable** predictions

↗ **AlphaVantage** API

ML Service

Interpretable predictions

AlphaVantage API

RabbitMQ broker or a **POST** request
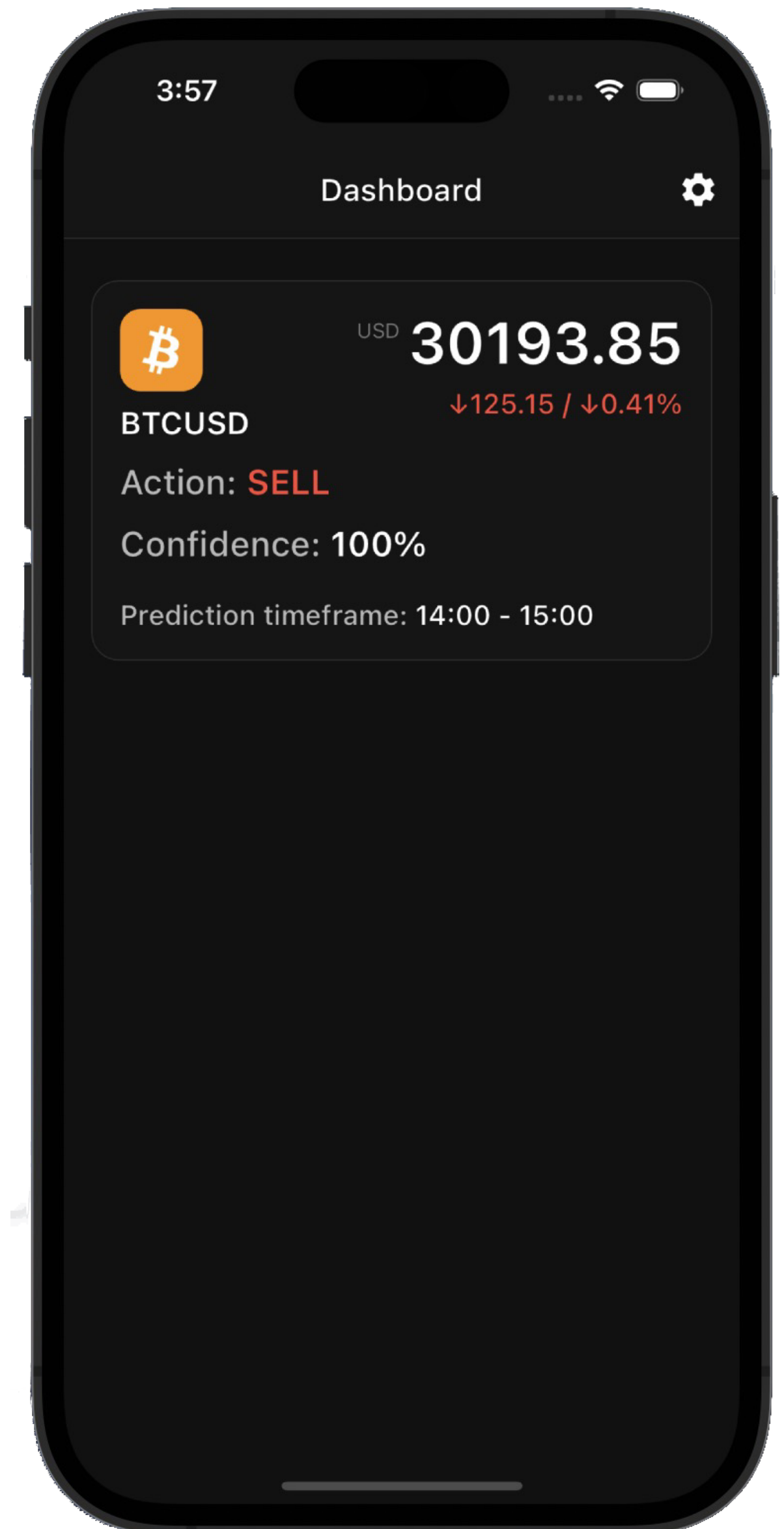
Backend

🔗 **Kubernetes** for deployment

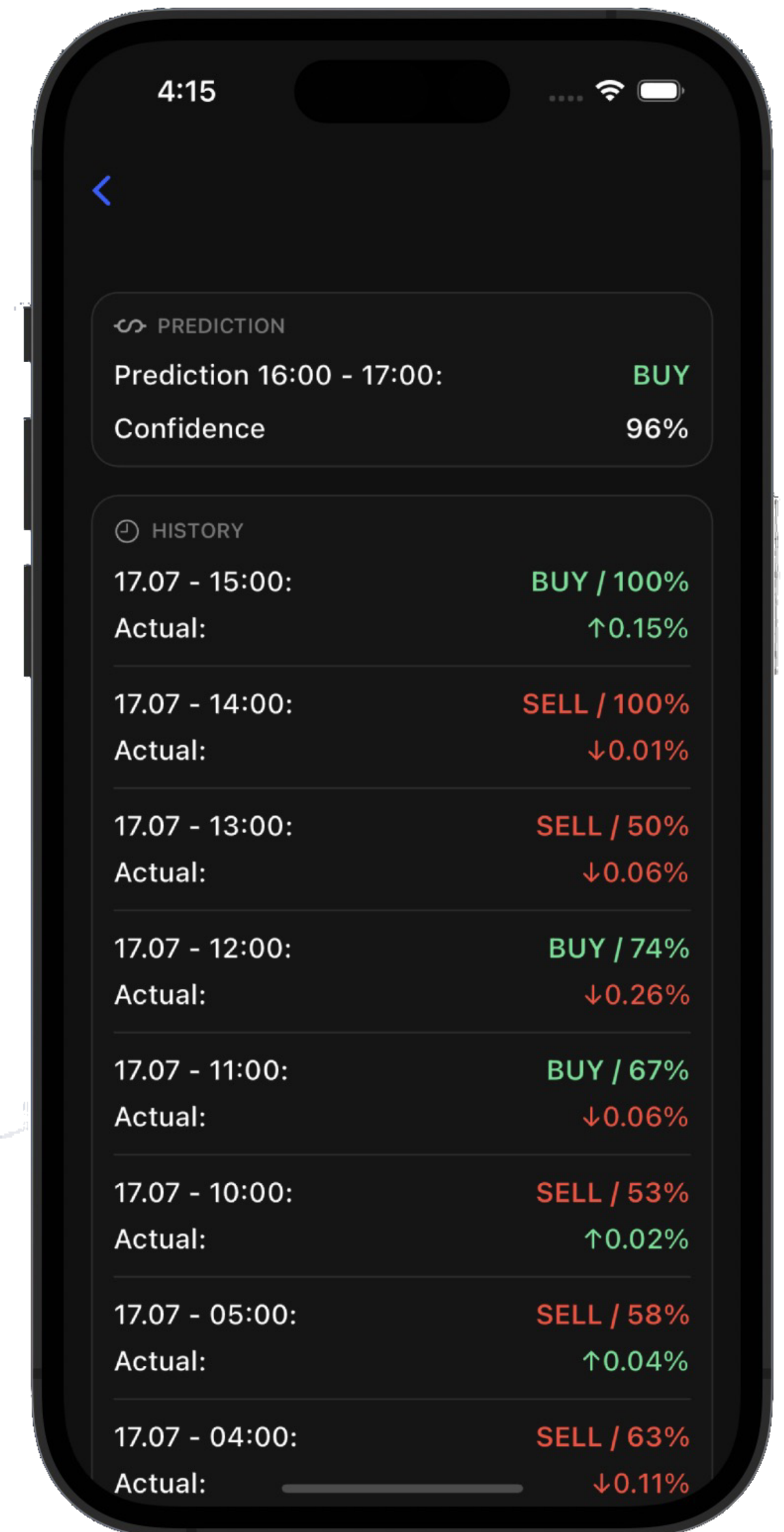✏️ **Infrastructure as Code**

↗️ **Fastify** - backend framework

Frontend

◎ **Flutter** app

📈 **WebSockets** for real-time data

Customer Feedback

🕐 Add **history** of predictions

✏️ Fix **UI/UX** Bugs

Stock Vision

10

Competition

	DanelFin	**1000pip**	**RoboForex**	**Zignaly**	**StockVision**
Interpretability	No	No	No	No	**Yes**
Term	1-3 months	Intraday	Intraday	Intraday	Intraday
Type	Machine Learning	Manual	Copy-Trading	Copy-Trading	Machine Learning
Market	Stocks	Forex	Stocks	Crypto	Crypto / Forex

Stock Vision

11

Thank you!

t.me/stockvision_news

Stock Vision