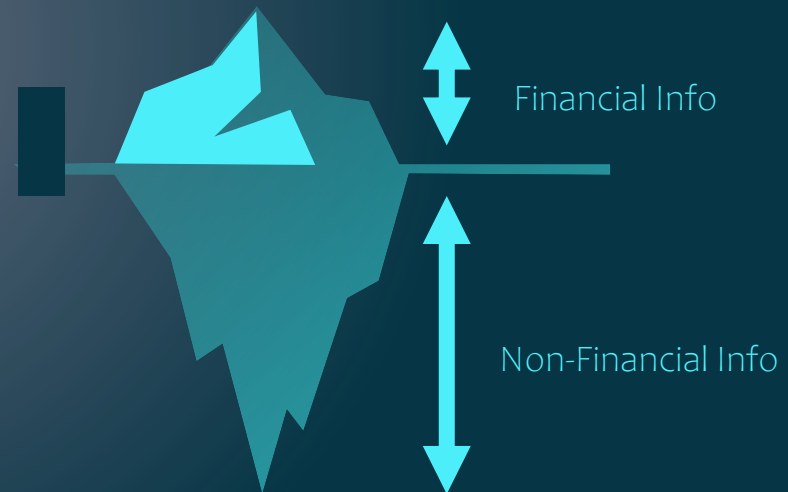




Problems

When you want to know the risk condition of a enterprise, you will find it:

- Time-consuming
 - Dispersion of risk information
 - Lack of a comprehensive numerical risk indicator
- Incomplete
 - Lack of ESG Information
 - Lack of Carbon risk in the future





R i s c u b e

Aggregate comprehensive risk information and provide a unified risk score.



Our Solution



Heterogeneous data

Financial information
ESG information
Carbon-related events



Global customer

Comprehensive risk assessment
Diversified international investment

"Unicorn"



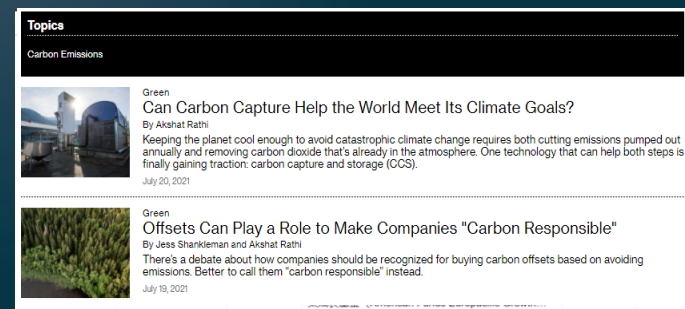
- Real-time risk monitoring
- ESG & carbon risk quantification
- Unified risk score



: Lack combination of ESG and risk



: Lack of quantitative financial indicators






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 Risk Analysis

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Search:


ID	Name	Operational Risk	Legal Risk	Loan Risk	Other Risk
58641410	Microsoft	0.05%	0.08%	43.80%	56.08%
94198675	Alpha Teknova	50.73%	0.42%	0.00%	48.85%
136649949	Addex Therapeutics	43.38%	0.69%	0.33%	55.60%
176707190	Adagene	44.38%	0.00%	0.02%	55.60%
325265909	Biodesix	0.01%	0.01%	51.34%	48.64%
333853715	AcelRx	0.00%	0.00%	45.81%	54.19%
412285498	Abcam	1.25%	0.16%	45.66%	52.94%
516297044	AcelRx	45.53%	0.00%	0.00%	54.46%
565888112	Alfi	0.04%	45.43%	23.20%	31.33%




Detailed Info of a Company



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 Risk Analysis

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Microsoft

+ Add To Subscriptions

MARKET CAP

\$2.1 Trillion



TRAILING P/E

38.06



RETURN ON ASSETS

13.51%



REVENUE

\$160 Billion



Risk Score



The risk score of company MSFT is [32]. Our risk scoring is calculated thoroughly from the all-embracing and in-depth analysis of its operational risk, legal risk, loan risk, and other potential risk factors, given the demographic, fundamental, and financial data of the company. Comprehensively speaking, the overall business risk exposure of this company is MODERATE.

Operational Risk: 41%

Legal Risk: 26%

Loan Risk: 24%



Potential Risk

Time ↑↓	Company Name ↑↓	Event Type ↑↓	Event Abstract ↑↓	Negativeness ↑↓
April 12, 2021	Nuance	Privacy leakage	Rigrodsky Law, P.A.announces that it is investigating Nuance Communications, Inc. ("Nuance") (NASDAQ GS: NUAN) regarding possible breaches of fiduciary duties and other violations of law related to Nuance's agreement to be acquired by Microsoft Corporation ("Microsoft") (NASDAQ GS: MSFT). Under the terms of the agreement, Nuance's shareholders will receive \$56.00 in cash per share.	22%
July 21, 2021	NETFLIX	Business abnormality	Netflix lays out mobile games plan that could set a collision course with Apple. "We really see this as an extension of our core product offering" and not as a separate profit pool, Netflix Chief Operating Officer Greg Peters said during a video call late Tuesday to discuss earnings. He characterized the gaming push as a multiyear effort that will start "relatively small" and "continuously improve, based on what members tell us what is working."	33%
July 9, 2021	BIG3	Stock price drop	The BIG3 announced the expansion of their partnership with Microsoft, naming them the Official Technology Partner of the league. The partnership will include Microsoft and Xbox as the official jersey patch partner, in-game signage, and product pop-ups. Of the 12 teams in the BIG3, six will have Microsoft branding on their jerseys and six will have Xbox.	6%
June 30, 2021	AT&T	Carbon Risk	AT&T will move its 5G mobile network to the Microsoft cloud. This strategic alliance provides a path for all of AT&T's mobile network traffic to be managed using Microsoft Azure technologies. The companies will start with AT&T's 5G core, the software at the heart of the 5G network that connects mobile users and IoT devices with internet and other services.	4%

Showing 1 to 4 of 4 entries

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▲ Risk Analysis

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Indonesia Revamps Debt Strategy to Slash Sales by \$20 Billion

59 minutes ago

GPIF Copycat Fund Bucks the Trend to Invest in Chinese Debt

3 hours ago

■ 'A Lot of Very Young People' Are Going to Buy the Dip in Stocks

4 hours ago

My Portfolio

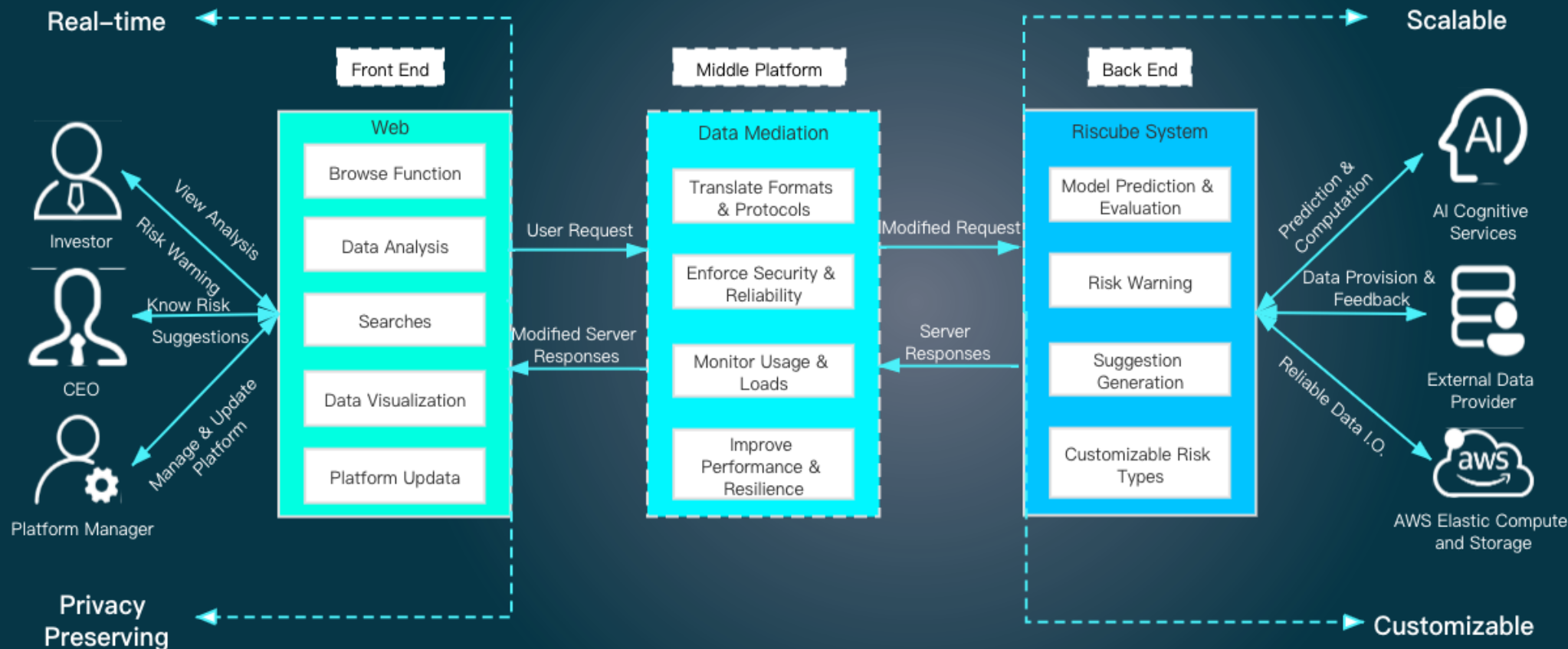


Subscribed Companies

MSFT	□ 32
BIDU	□ 20
ATA	■ 10
Beam	□ 40
Shell	□ 20
Apple	■ 10
Google	□ 40
Agenus	□ 20
Autoweb	■ 10

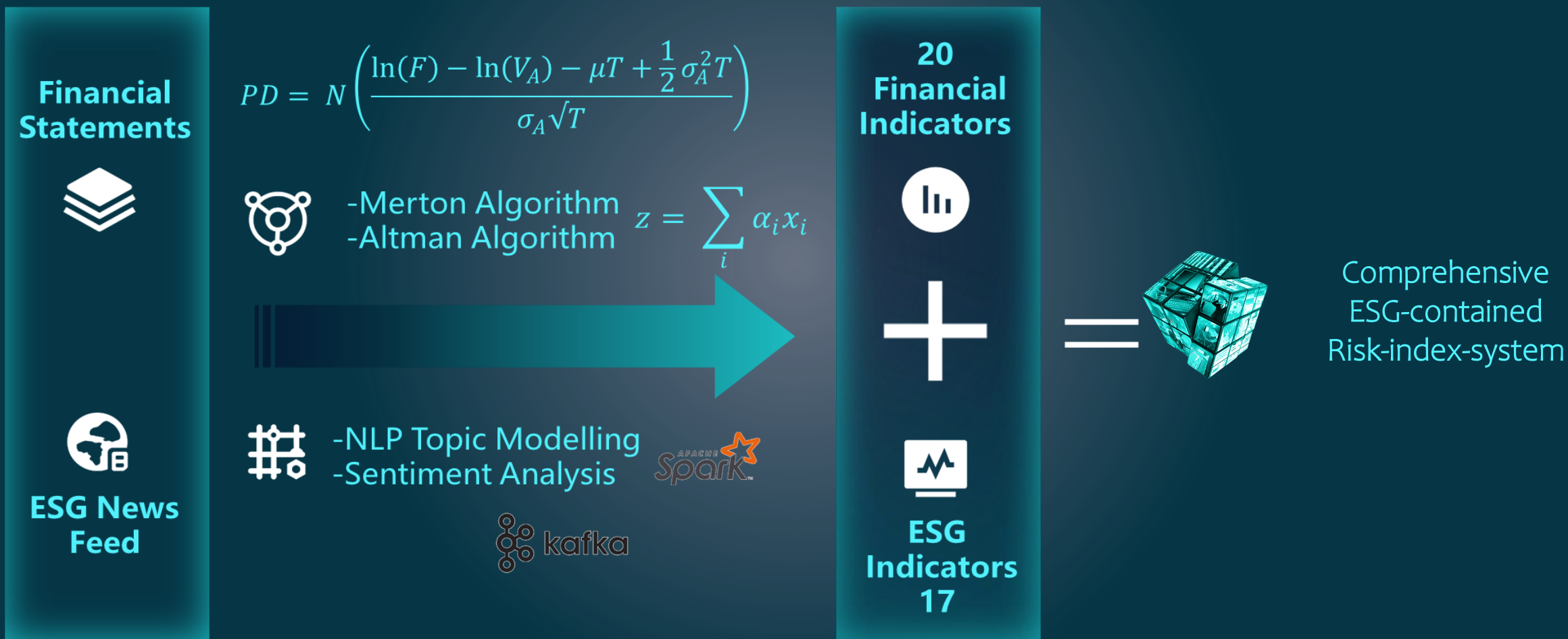


System Architecture



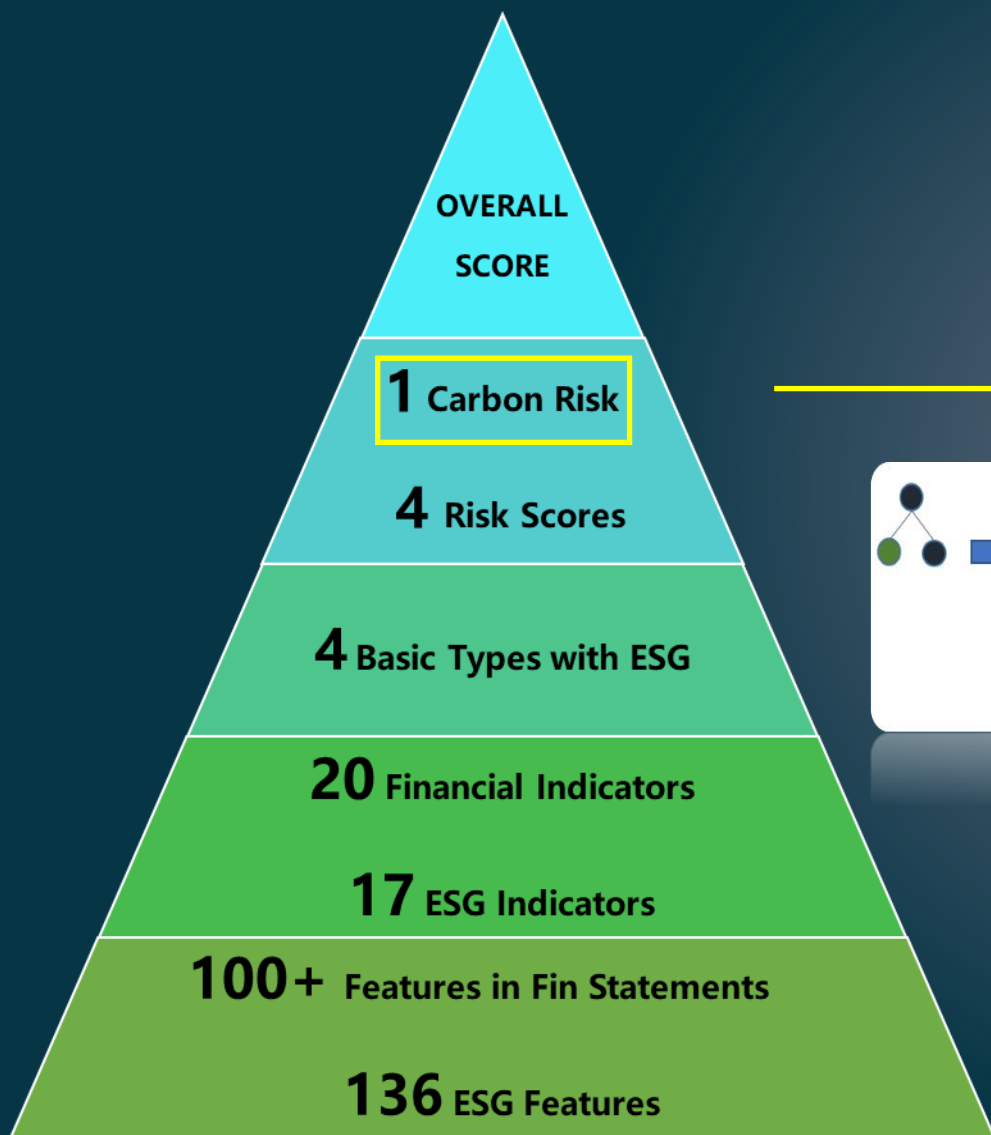


Risk Assessment Model——Risk-index-system





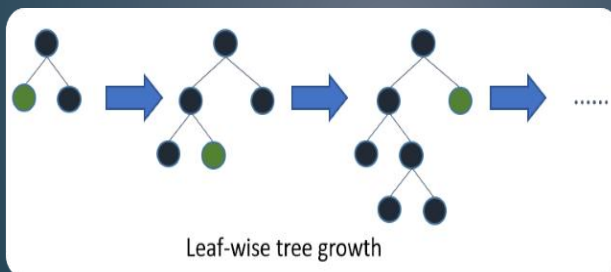
Risk Assessment Model——Overall Risk Score



$$S = \sum_i w_i(r, \text{ESG})_i + R_{\text{carbon}}$$

$$R_{\text{carbon}} = \beta_0 c_0 f(c_1) \cdot \left(\sum_i \beta_i c_i \right)$$

- Whether the business is involved in carbon emissions (C_0)
- Whether they have carbon emission rights (C_1)
- Current Carbon Emissions (C_2)
- Certificate numbers (C_3)
- Current Carbon Emission Policy (C_4)
-



Leaf-wise tree growth

Leaf-wise tree growth

AI-driven algorithm:

$$S' = f(\text{Financial indicators}, \text{ESG indicators})$$

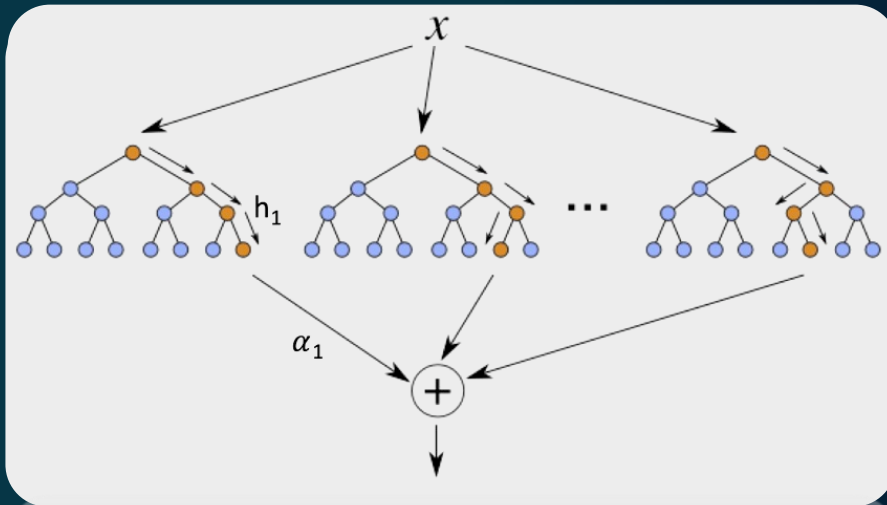
Personalized customization:
Customer-defined risk types & special indicators!





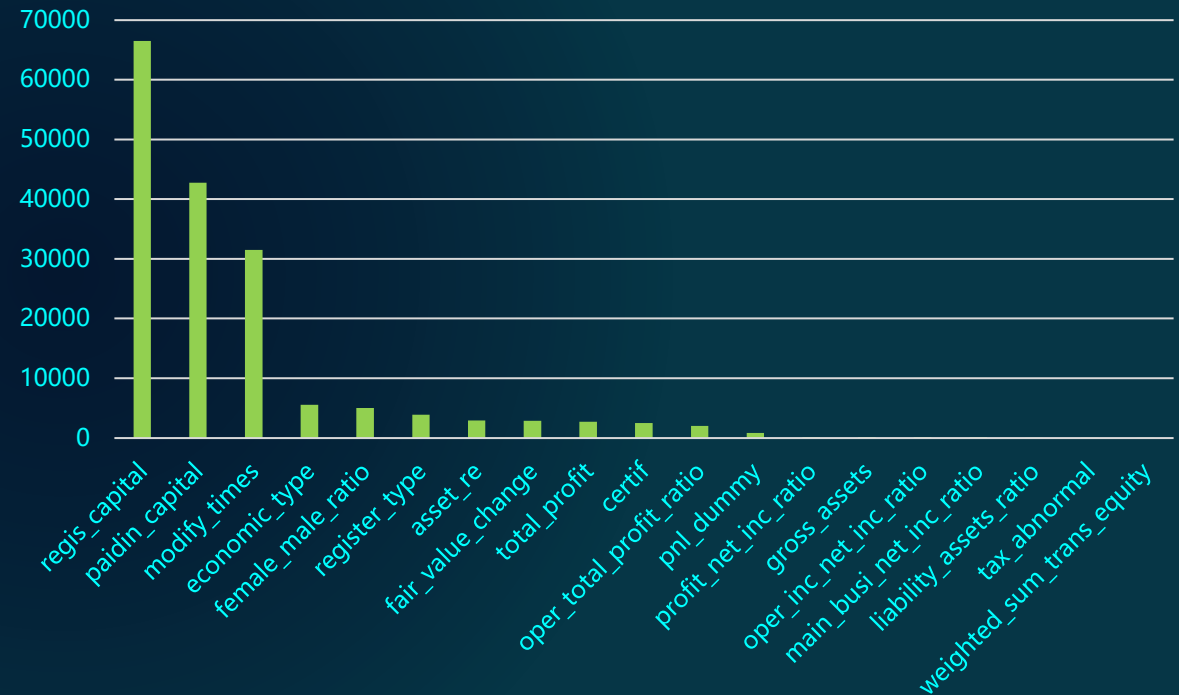
AI-Driven Algorithm: Gradient Boosting Machine

Tree Ensemble Algorithm



Tree ensembles is an explainable machine learning model that combines numerous weak learners into a strong predictor.

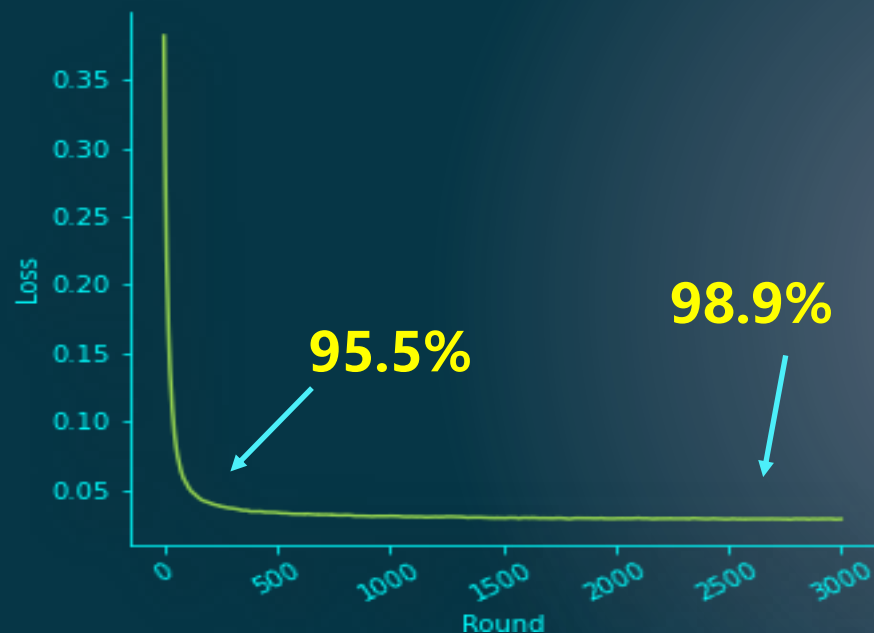
Feature Importance Interpretation





Excellent Quantitative Performance

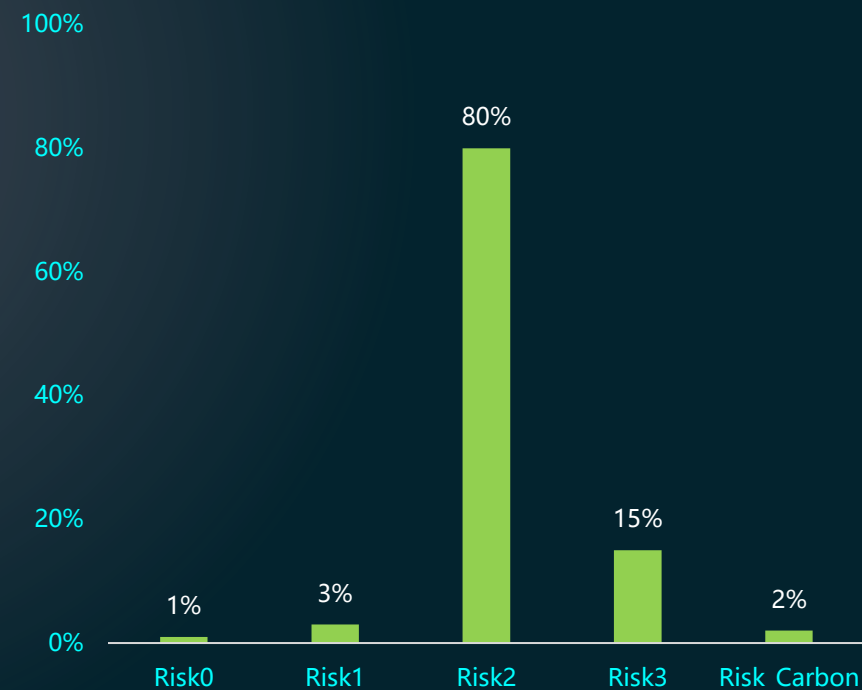
Test accuracy vs Training rounds



Test Accuracy	Recall	Precision	Cross_val_score
98.92%	0.9891	0.9892	0.9049

Risk ratio of **coal Inc.

43.1





Application: Carbon Risk Informed Investment Portfolio



Cube 30

30 stocks selected according to the lowest risk scoring criteria

	Volatility	Sharp Ratio	Max. Dropdown	Return rate
Cube 30	0.18	1.27	-12.74%	12.72%
CSI 300	0.34	1.31	-21.83%	12.21%

Riscube do help investors judge and avoid risks.



Riscube



Machine
Intelligence



Excellent
Performance



Green
Finance

Bring comprehensive risk quantification to the world