

# Crypto LP Risk Classification

## Classification Problem

**Objective:** Classify cryptocurrency liquidity pools into risk levels: High, Middle, or Low Risk

## Classification Attributes

- 1. **TVL (Total Value Locked)** - Total liquidity funds (USD denominated)
- 2. **APY** - Annual Percentage Yield (considering compound interest)
- 3. **Token Pair Type** - Token pair
- 4. **Pool Age** - Pool existence duration
- 5. **Protocol Audit Status** - Protocol audit status (checking for smart contract vulnerabilities)
- 6. **Daily Volume** - Daily trading volume/TVL (%)
- 7. **Whale Concentration** - Token holdings by top 10% addresses
- 8. **Circulation Supply Ratio** - Current circulating token amount/total supply (%)
- 9. **Impermanent Loss Risk** - Impermanent loss risk
- 10. **Token Volatility** - Token price volatility

## Benefits of Using This Classifier

- 1. **Automated Risk Screening** - Investors don't need to manually analyze each liquidity pool
- 2. **Time-Saving** - Quickly identifies investor risk preferences
- 3. **Objective Decision-Making** - Avoids emotionally-influenced judgments

## Example Instances (Based on DefiLlama)

#	Pool	Project	TVL	APY	Token Pair	Pool Age	Audited	Daily Vol /TVL	Whale Conc.	Circ. Ratio	IL Risk	Volatility	Label
1	stET	Lido	\$3	2.5	Mixe	1200	Yes	5%	25%	95%	Low	Low	Low

Project ID	1	H		6.74B	6%	d								Risk
	2	WBETH	Binance Staked	\$14.30B	2.47%	Mixed	800	Yes	4%	35%	98%	Low	Low	Low Risk
	3	WEETH	<a href="#">ether.fi</a> Staked	\$11.35B	3.26%	Mixed	600	Yes	6%	28%	92%	Low	Low	Low Risk
	4	WEETH	Aave V3	\$7.98B	0%	Mixed	450	Yes	8%	30%	92%	Low	Low	Low Risk
	5	sUSD	Ethna USD	\$5.86B	5.93%	Stable	180	Yes	12%	45%	75%	Low	Low	Low Risk
	6	RETH	Rocket Pool	\$5.81B	2.32%	Mixed	1000	Yes	3%	22%	88%	Low	Low	Low Risk
	7	WSTETH	Aave V3	\$5.54B	0.02%	Mixed	650	Yes	7%	25%	95%	Low	Low	Low Risk
	8	WBTC	Aave V3	\$5.27B	0%	Volatile	700	Yes	10%	40%	100%	Medium	Medium	Medium Risk
	9	jitoS	Jito Liqui	\$3.	6.6	Mixed	400	Yes	15%	38%	82%	Low	Med	Low

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1 4		sU SD S	Sky Len ding	\$ 2. 23 B	4. 75 %	St abl e	12 0	Ye s	30 %	72 %	65 %	M ed iu m	Lo w	<b>Hig h Ris k</b>