EXCLUSIVE OPPORTUNITY FOR QUANTITATIVE FINANCE ENTHUSIASTS

"CREATE YOUR OWN STRATEGY AND EARN" PROGRAM

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Dear Candidates/Students,

Recognizing the unique challenges faced by freshmen, sophomores, and those juggling academic curriculums and internships, Zelta Labs has crafted a special opportunity for you.

We understand that balancing academic commitments and gaining professional experience can be demanding. To address these challenges and provide an opportunity for individuals in the early stages of their academic journey, we've tailored an exclusive program for you – "Create Your Own Strategy and Earn" initiative.

Objective

Develop algorithmic trading strategies for the BTC/USDT cryptocurrency market, aiming to outperform benchmark returns, safeguard capital through risk management, and operate with statistical soundness.
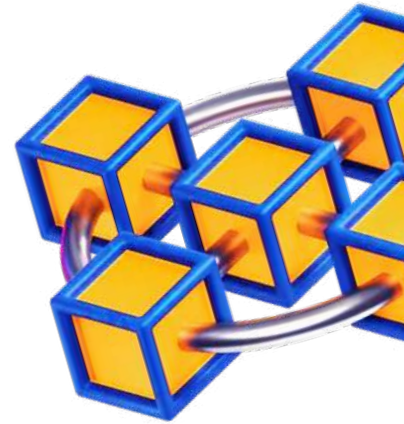
Data Access

You will have access to BTC/USDT OHCLV data spanning different candlestick time frames from January 1, 2018, to December 31, 2022. This 5 years dataset is provided to empower you in crafting more advanced and sophisticated algorithms.

Process

1.Run your strategy through our in-house back test engine for an overall health assessment and metrics evaluation.

2.If it meets our standards, we allocate an initial 5k-10k USD for strategy execution, featuring a profit-sharing model of 30%.

3. As your strategy performs well and closely replicates back testing metrics in a live trading environment, we'll expand the pool and may increase profit-sharing in exceptional cases.

Post-Submission Observations (3 Weeks):

1. Ensuring alignment between logs generated during algorithm back testing and real-time front test orders, focusing on price and timestamp coherence.

2. Assess code functionality and optimality for smooth operation during the observation period.

3. Evaluate the impact of real-life order book, including slippages and miscellaneous costs, on net profitability.

This comprehensive program not only allows you to develop and test your strategies but also provides a unique opportunity to fine-tune them through a meticulous observation phase.

"Profit Sharing Conditions for 'Create Your Own Strategy and Earn' Program"

1. Disbursement Schedule & Vesting Mechanism:

Profits will be disbursed quarterly, at the end of the third quarter. The best-performing quarters, specifically the top two, will be vested to create a robust financial cushion, providing a reserve that can be utilized in the event of future losses. This dynamic vesting strategy ensures ongoing protection and adaptability with respect to the crypto market.

Furthermore, we want to emphasize our commitment to fairness and recognition of exceptional performance. We will thoroughly assess the strategy's performance, and in exceptional cases where a participant's strategy demonstrates outstanding results, we will consider expanding the profit-sharing pool and may add more releases of quarter's profits.

 This approach is designed to justify the notorious nature of the crypto market and at the same time put forward our dedication to acknowledging and rewarding excellence within the program.

2. Disbursement Method:

Profits will be disbursed through a mutually agreed-upon mode of transaction.

3. Learning Focus:

The initiative emphasizes a learning experience, with a focus on imparting core concepts of statistical insights essential for successful trading.

4. Mentoring Component:

Participants will receive mentoring from members of Zelta's Quant Desk to guide them in creating their own money-making strategies. The aim is to foster continuous personal and intellectual growth, with financial success as a natural byproduct of this growth.

5. Performance Metrics:

Zelta will assist participants in understanding key performance metrics, including the number of trades per month, drawdowns, and the monthly net percentages needed to achieve their financial goals.

6. Intellectual Property Ownership:

All intellectual property developed during the program will belong to Zelta.

7. Formal Agreement:

An MOU/NDA will be signed to formalize the agreement, ensuring clarity and confidentiality in the partnership.

8. Data and Further Approach:

A. Utilize the provided BTCUSDT OHCLV data attached in this email to create a foundation for your logic and approach concerning data.

B. Use Zelta Labs' in-house back testing engine for assessing the generated returns. Submit logs with date-timestamp for evaluation.

Here is the link to the dataset: -
https://drive.google.com/drive/
folders/1SDhwScUNVrEmGBXbm8nDAlh2YO58hs9-

Here is the link to the format and submission approach:-
https://docs.google.com/document/d/120Z-
iBsTaVW1N8T8ZhAQ7xSAWQ1tfJ4Dhc5dp0u84Rg/edit?usp=sharing

Few Queries that we would like to address beforehand

1. You can use any of the frequencies (given in the dataset) to formulate your strategies.

2. Focus should be to create alpha producing strategies where a fine balance is maintained between computational efficiency of the code and maximized returns. Since ML/DL based strategies require periodic retraining and explain ability/interpretability of models, see if you can approach this challenge through statistical analysis and various other mathematical approaches.

3. Submission format for long and short signals is categorically defined in tech submissions doc. In case any doubt still pops-up, reach out to us.

Some other miscellaneous instructions

1. Use just 2018–2022-year data and logically categorize your train, validation and test in this 2018-2022.

2. You can use back trader however we have an in -house back test engine to generate results of every log that you send in every iteration.
Personally suggesting, work parallelly in creating your own back testing engine using OOP principles but priority wise keep sending us your logs for evaluation through our back testing engine before finally reaching the best iterated solution as final submission.

3. You are allowed to make multiple submissions of strategies; we can mutually decide further regarding your final submission for assessment.

We will create a common channel of communication for all participants and will keep on guiding them and mentoring through our experiences gained and giving you guys valuable front-run insights of algorithmic trading. We will mutually discuss in-house statistical approaches that have been working great for us to give you guys something to build on.

Why Participate

Skill Enhancement:

Optimize your existing strategy during the program or create a new one altogether to experience the thrill of the front run of your creation.

Opportunity for Zelta Labs Quant Desk:

A successful 1-2 quarter front-run could serve as a direct entry into Zelta's quant desk post-college, securing your candidature.

Flexibility for Academic Commitments:

We understand the challenges you face as freshmen/sophomores/pre-final year, and therefore this program not only allows you to leverage your skills effectively but also offers the flexibility to continue with your current academic curriculums while exploring this exciting opportunity with Zelta Labs.

Gateway to High-Frequency Trading (HFT) Firms:

Successful ongoing front-run will not only highlight the candidate's quant profile significantly but also becomes a straight ticket to top HFT firms post-college. This unique opportunity sets you on a trajectory towards a promising career in the competitive world of quantitative finance.

This is a unique chance to leverage your skills, gain practical experience, and potentially shape your future in Quantitative Finance. We look forward to your participation in this exciting venture.

Any questions, feel free to reach out to
hr@zeltatech.com , harsh@zeltatech.com & sampanacharya@zeltatech.com

Thanks & Regards
Team HR Zelta Labs

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Hello Candidate

We hope this email finds you well. Your interest and expertise in mathematical modeling, data science, and algorithmic trading did not go unnoticed to us.

Zelta Labs is actively seeking full time candidates who exhibit exceptional quantitative abilities and can generate alphas while maintaining precise risk management practices. As a Quant Trader/Analyst at Zelta Labs, you will play a pivotal role in shaping our trading strategies and contributing to the overall success of our dynamic team. The ideal candidates will be adept at quantitative analysis, mathematical modeling, and algorithmic trading.

Here's a brief overview of the program:

Objective

Develop algorithmic trading strategies for the BTC/USDT cryptocurrency market, aiming to outperform benchmark returns, safeguard capital through risk management and operate with statistical soundness.

Process

1. Data Access:
We'll provide you with BTC/USDT OHCLV data for different candlestick frames from January 1, 2018, to December 31, 2022.

2. Strategy Development:
Utilize your expertise to design algorithmic trading strategies, considering various approaches such as trend-following, mean-reversion, momentum-centric, machine learning or any other quant approach etc.

3. Source Code Submission and Repositories:
Develop algorithmic trading strategies on BTCUSDT using Google Collab Notebook, Jupyter Notebook, or any other web-based interactive computing platform.
Submit the source code and documentation explaining the logic and parameters used on Zelta Labs' GitLab repository.
We will be going ahead with creating separate GitLab repositories for each participant, allowing periodic submissions of their work. Updates on this will be provided soon.

4. Data and Further Approach:
We are attaching BTCUSDT OHCLV data in this mail for you guys to create foundation of your logic and approach vis-à-vis data and have a initial play around with it.
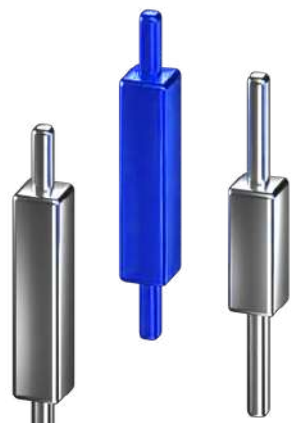
Utilize our in-house back testing engine by sending us your logs with timestamps for assessment of generated returns.

Here is the link to the dataset: -
https://drive.google.com/drive/folders/1SDhwScUNVrEmGBXbm8nDAlh2YO58hs9-

Here is the link to the format and submission approach:-
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How to Proceed:

If you're interested in this opportunity, express your affirmation to this mail. We'll then initiate a comprehensive conversation to address any questions or concerns you may have and provide additional details.

In addition to this exciting opportunity, we would like to provide some insight into what Zelta Labs does. Zelta Labs recently sponsored Inter-IIT Mid Prep's "Crypto Trading Challenge" at IIT-Madras, and looking ahead, Zelta Labs is poised to make a significant impact by sponsoring the IIT-Kharagpur Data Science Hackathon in January 2024. This exemplifies our commitment to nurturing talent and driving meaningful advancements in the world of algorithmic trading and becoming a powerhouse in the world of blockchain and algorithmic trading.

Best regards
HR
Zelta Labs

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