

TEST INTRODUCTION

Please complete the objective and submit the deliverables as described below to the best of your ability. If you have a question, please feel free to email us.

BEZANT TECH PRACTICAL TEST

Deadline: 5 days starting from the day the exam is sent to the candidate. Submit deliverables per the final deliverables list in the latter section of this assignment by 5 pm ET. If you have a reason you are unable to complete this exam in the allotted time, let us know upon receipt and we will do our best to accommodate.

Objective:

[Bezant Tech](#) is an investment firm that focuses on deploying quantitative investment strategies in the digital assets space. In this assignment, we ask you to design a data pipeline that collects, processes, and stores unstructured data. The data provided is similar to some of the datasets we collect, transform and use to predict position sizes with respect to the different assets we trade.

Data:

We attached the following dataset:

- **telegram.csv:** this dataset contains signals shared by social traders recommending directional bets with respect to digital assets. We added data from two different channels: <signal-channel-a>, and <signal-channel-b>

Details:

1. Propose an architectural diagram to collect, transform and store this data from the two channels. The architecture diagram should be detailed, describing your assumptions, and your class and persistence data models (data schema that turns the raw text into a structured format. Hint: a signal would have things like the side of the bet, entry price, exit price, etc.).
2. Describe the technologies you would use to implement your architecture and the reasons behind your technological choices (hint: pipeline, queuing system, data store).
3. Write a simple pipeline that transforms and stores the unstructured data into a database.
4. Prepare a technical write-up (document or presentation) explaining your design process, technological choices, learnings from the data, and ideas on how you would have designed the full architecture, i.e., on top of the data collection, processing and storage, how would you implement an end-to-end machine learning system. Submit this via email to Nico Kseib (nico@bezanttech.com) and Dhruv Singh (dhruv@bezanttech.com).

Final Deliverables:

1. Running code shared on GitHub.
2. Technical write-up (Google Doc or Presentation)

<end of overview>