

CASE STUDY OUTLINE

Case Study Details:

This case study is meant to serve as a role play exercise as if you were presenting to a real Client. You will be given Business Requirements with an expected outcome to present. Please focus your solution on the technology area specific to the position you are applying for.

Scenario:

Attached is a time-series data set giving "ping" readings during a Wi-Fi connection test. "Ping" is a term used in telecommunications to describe signal latency, also called "lag."

You are to develop a PoC in which you develop a methodology for decomposing the signal into its components (trend, periodicity, and noise) and detecting anomalies in the signal from these components.

Expectations:

Please demonstrate the PoC in a slide deck outlining:

- Initial data analysis
- Cleaning and/or transformations applied to the data
- Interesting findings
- Description of the methodology applied
- Metrics used to evaluate the efficacy of the methods employed

Please also submit any source code for review.