

In the realm of data quality management, integrating robust data quality rules into automated workflows and data pipelines is essential for maintaining data integrity. This thesis addresses the gap in programmatic accessibility of Ataccama ONE's data quality tools, which primarily leverage the proprietary Ataccama Expression Language. By reimplementing this language in Python, the project enhances its usability for data engineers who seek to consume these tools programmatically. The focus is on enabling data engineers to execute Ataccama's rules directly within Python. The viability of this implementation is tested through performance comparisons with similar solutions.