**Interview with a fourth-year student about their graduation project**

**Goal of the graduation project:**

The goal of the graduation project was to streamline the process of analyzing OT measurements. OT measurements are a valuable tool for studying the mechanical properties of biological molecules such as proteins and DNA. However, the analysis of OT measurements can be time-consuming due to the large amount of data involved.

**Approach to the research:**

The project used downsampling techniques to reduce the data while preserving its essential features. Downsampling is a technique for reducing the number of data points in a dataset while maintaining the overall structure of the data. This can be done by averaging multiple data points together, or by selecting a subset of data points that are representative of the entire dataset.

**Key results of the research:**

The project developed a software application that automates the analysis of OT measurements. The application is able to perform force-distance analysis and constant distance analysis. Force-distance analysis is used to study the mechanical properties of proteins and DNA by subjecting them to different forces and analyzing their structural changes. Constant distance analysis is used to study the mechanical properties of fixed objects by measuring positional variations without changing the externally applied force.

**Why did the student choose this internship location:**

The student chose this internship location because they were interested in working on a project that would have a real-world impact. They were also interested in learning more about the analysis of OT measurements.

**How does the student like the internship location:**

The student enjoys the internship location and feels that they are learning a lot. They have a good relationship with their supervisor and the other interns.

**Did the student have enough prior knowledge:**

The student felt that they had enough prior knowledge to begin the internship. They had taken some relevant courses in school and had some experience with data analysis.

**What is the student going to do next:**

The student is planning to continue working on the project as a part-time employee after they graduate. They are also interested in pursuing a career in research.

**Would I want to intern at this location:**

Yes, I would be interested in interning at this location. I am interested in the research that is being done at the location and I believe that I would be able to learn a lot from the experience. I am also confident that I have the skills and knowledge necessary to be successful in the internship.

Overall, I believe that this is a valuable project that has the potential to make a real-world impact. I am impressed with the student's work and I believe that they have a bright future in research.