Understanding file formats in Bioinformatics: [Understanding File Formats in Bioinformatics: VCF and gVCF (youtube.com)](https://www.youtube.com/watch?v=cBDZSGf9HRE)

**Lists**

* A list in Python is an ordered collection of items that can be of any type (e.g., numbers, strings, other lists).
* Lists are created using square brackets [].
* Lists are mutable, meaning you can change their contents.

Example:

python

Copy code

# A list of integers

numbers = [1, 2, 3, 4, 5]

# A list of strings

fruits = ["apple", "banana", "cherry"]

**Tuples**

* A tuple is similar to a list but is immutable, meaning once it is created, you cannot change its contents.
* Tuples are created using parentheses ().

Example:

python

Copy code

# A tuple of integers

point = (3, 4)

# A tuple of mixed types

person = ("Alice", 30)

Freecode camp:

What is dataanalysis:

The process of inspecting, cleaning, transforming and modelling data with the goal of discovering useful information, informing conclusion and supporting decision making

I have applied for this scholarship to pursue my passion for transitioning into the tech field, specifically to develop AI software to treat human diseases. The fusion of technology and healthcare has the potential to revolutionize treatment and improve patient outcomes, and I am eager to contribute to these advancements.

Coming from a black heritage and a low socioeconomic background, I have faced significant challenges that have shaped my resilience and determination. Financial constraints have often hindered my access to quality education and opportunities. Despite these obstacles, I have strived for academic excellence and skill development.

This scholarship would be transformative, providing the financial support necessary to access high-quality education and resources essential for mastering AI technology. It would allow me to focus entirely on my studies without the burden of financial stress, enabling me to develop innovative AI solutions for healthcare.

Moreover, receiving this scholarship would enable me to serve as a role model within my community, demonstrating that individuals from disadvantaged backgrounds can achieve great things with the right support. This scholarship is not just financial aid; it is a vital step towards making a meaningful impact in the world and inspiring others to overcome obstacles and strive for excellence.