**Read Alignment Methods**

**A diagram of a diagram

AI-generated content may be incorrect.**

**Number of Character Comparisons Example**

A white background with black text

AI-generated content may be incorrect.

**Edit Distance Matrix**

A graph of a mathematical equation

AI-generated content may be incorrect.

**Alignment Matrix**

|  |  |
| --- | --- |
| A rectangular box with numbers and symbols  AI-generated content may be incorrect. | A graph showing the number of the same number  AI-generated content may be incorrect. |
| Shortest edit distance btwn the full strings | Path to the shortest distance |

A diagram of a graph

AI-generated content may be incorrect.

**Local Alignment Matrix**

A graph on a square with a red line going down

AI-generated content may be incorrect.A graph on a square with a red line going down

AI-generated content may be incorrect.

***de novo* Shotgun Assembly**

A dna sequence with blue and red letters

AI-generated content may be incorrect.

**Coverage**

A diagram of dna structure

AI-generated content may be incorrect. A dna sequence with numbers and letters

AI-generated content may be incorrect.

**Overlap Graphs**

A diagram of a dna sequence

AI-generated content may be incorrect.