GUI: Graphical User Interface CLI: Command-Line Interface

The GUI is the, well graphical side of computer interfaces. It's the visuals, the "buttons"/sliders and such to adjust settings and actions taken.

The CLI is more of the backend side of the computer. If the GUI is a modern video game, the CLI is the original text adventure game in presentation. The CLI is also typically more versatile, being the back end side and all. You use the CLI to build the GUI and such.