**Python’s Mediapipe’s Hand Landmarks**

|  |  |  |
| --- | --- | --- |
| **Index** | **Landmark** | **Description** |
| 0 | Wrist | Base of the hand (near wrist). |
| 1 | Thumb CMC | First joint of the thumb. |
| 2 | Thumb MCP | Second joint of the thumb. |
| 3 | Thumb IP | Third joint of the thumb. |
| 4 | Thumb Tip | Tip of the thumb. |
| 5 | Index Finger MCP | Knuckle of the index finger. |
| 6 | Index Finger PIP | First joint of the index finger. |
| 7 | Index Finger DIP | Second joint of the index finger. |
| 8 | Index Finger Tip | Tip of the index finger. |
| 9 | Middle Finger MCP | Knuckle of the middle finger. |
| 10 | Middle Finger PIP | First joint of the middle finger. |
| 11 | Middle Finger DIP | Second joint of the middle finger. |
| 12 | Middle Finger Tip | Tip of the middle finger. |
| 13 | Ring Finger MCP | Knuckle of the ring finger. |
| 14 | Ring Finger PIP | First joint of the ring finger. |
| 15 | Ring Finger DIP | Second joint of the ring finger. |
| 16 | Ring Finger Tip | Tip of the ring finger. |
| 17 | Pinky Finger MCP | Knuckle of the pinky finger. |
| 18 | Pinky Finger PIP | First joint of the pinky finger. |
| 19 | Pinky Finger DIP | Second joint of the pinky finger. |
| 20 | Pinky Finger Tip | Tip of the pinky finger. |

**Abbreviations:**

* **MCP (Metacarpophalangeal)**: The knuckle where the finger meets the palm.
* **PIP (Proximal Interphalangeal)**: The first joint in the finger.
* **DIP (Distal Interphalangeal)**: The second joint in the finger.
* **IP (Interphalangeal)**: The thumb's equivalent of DIP.