Algorithm: Retrieve Local IP Address

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- 2: Connect to a public server using s.connect(("8.8.8.8", 80))
- 3: Retrieve the local IP address with s.getsockname()[0]
- 4: Handle potential socket.error exceptions using a try-except block
 - \bullet \mathbf{Set} user_ip to None if an error occurs
- 5: **Return** the retrieved user_ip address