

**NLAI – Autonomous Sales AI Agent (Node.js Starter Code)**  
**/ai-agent/index.js**

```
// NLAI – Autonomous Sales Brain (Starter Buildthon Version)
// Author: Abhay Shukla – Founder, NLAI

import express from "express";
import fetch from "node-fetch";
import WebSocket from "ws";
import dotenv from "dotenv";
dotenv.config();

const app = express();
app.use(express.json());

/* -----
  1. OPENAI REALTIME VOICE AGENT
-----*/

const OPENAI_API_KEY = process.env.OPENAI_API_KEY;
const REALTIME_URL = "wss://api.openai.com/v1/realtime?model=gpt-4o-mini-tts";

function createVoiceAgent(connectionId) {
  const ws = new WebSocket(REALTIME_URL, {
    headers: {
      "Authorization": `Bearer ${OPENAI_API_KEY}`,
      "OpenAI-Conversation-ID": connectionId
    }
  });

  ws.on("open", () => {
    console.log("🔊 Voice Agent Connected");

    // Initial greeting
    ws.send(JSON.stringify({
      type: "response.create",
      response: {
        conversation: [
          {
            role: "assistant",
            content: [{ type: "output_text", text: "Hello! I'm the NLAI AI assistant. How can I help you today?" }]
          }
        ]
    })
  });
}
```

```

        }
    });
});

ws.on("message", async (data) => {
    const event = JSON.parse(data);

    if (event.type === "response.output_text.delta") {
        console.log("AI:", event.delta);
    }

    if (event.type === "user_speech_result.final") {
        console.log("User said:", event.transcript);

        handleIntent(event.transcript, ws);
    }
});

return ws;
}

/* -----
   2. SIMPLE INTENT HANDLER LOGIC
-----*/

```

```

async function handleIntent(text, ws) {
    let reply;

    if (text.includes("price") || text.includes("cost")) {
        reply = "Our pricing starts at just ₹799 per month for businesses. Would you like me to send details on WhatsApp?";
    }

    else if (text.includes("demo")) {
        reply = "Sure, I can book a live demo for you. Please share your preferred time.";
    }

    else if (text.includes("location")) {
        reply = "We are based in Delhi, but we serve clients all across India.";
    }

    else {
        reply = "I can help with pricing, demos, follow-ups, and business automation. What would you like to know?";
    }
}

```

```

}

ws.send(JSON.stringify({
  type: "response.create",
  response: {
    conversation: [
      { role: "assistant", content: [{ type: "output_text", text: reply }] }
    ]
  }
}));

// Log to Google Sheets
logToSheet(text, reply);

// Send WhatsApp auto follow-up
sendWhatsAppFollowUp("91XXXXXXXXXX", reply);
}

/* -----
  3. GOOGLE SHEETS CRM LOGGING
-----*/
import { google } from "googleapis";

async function logToSheet(userText, botReply) {
  try {
    const auth = new google.auth.GoogleAuth({
      credentials: JSON.parse(process.env.GOOGLE_SERVICE_ACCOUNT),
      scopes: ["https://www.googleapis.com/auth/spreadsheets"],
    });

    const sheets = google.sheets({ version: "v4", auth });

    await sheets.spreadsheets.values.append({
      spreadsheetId: process.env.SHEET_ID,
      range: "Sheet1!A:C",
      valueInputOption: "RAW",
      requestBody: {
        values: [[new Date().toISOString(), userText, botReply]]
      }
    });

    console.log("📄 Logged to Google Sheets");
  }
}

```

```

        } catch (err) {
            console.error("Sheet Error:", err);
        }
    }

/* -----
  4. WHATSAPP AUTO FOLLOW-UP
-----*/

```

```

async function sendWhatsAppFollowUp(phoneNumber, message) {
    try {
        await
fetch(`https://graph.facebook.com/v17.0/${process.env.WHATSAPP_PHONE_ID}/message` , {
        method: "POST",
        headers: {
            "Authorization": `Bearer ${process.env.WHATSAPP_TOKEN}`,
            "Content-Type": "application/json"
        },
        body: JSON.stringify({
            messaging_product: "whatsapp",
            to: phoneNumber,
            text: { body: message }
        })
    });

```

```

    console.log("🕒 WhatsApp follow-up sent!");

```

```

} catch (err) {
    console.error("WhatsApp Error:", err);
}
}

/* -----
  5. API ENDPOINT: START AI CALL
-----*/

```

```

app.get("/start-call", (req, res) => {
    const connectionId = Date.now().toString();
    createVoiceAgent(connectionId);

    res.json({
        status: "AI agent started",
        connectionId
    });
}

```

```
});  
});  
  
/* -----  
 6. SERVER  
----- */  
  
const PORT = process.env.PORT || 5000;  
app.listen(PORT, () => console.log(`🚀 NLAI AI Agent running on port ${PORT}`));
```