

AI Agent Node with Tools, Memory, and Output Parser

```
{
  "nodes": [
    {
      "parameters": {
        "promptType": "define",
        "text": "User message",
        "hasOutputParser": true,
        "options": {
          "systemMessage": "System Message\n"
        }
      },
      "type": "@n8n/n8n-nodes-langchain.agent",
      "typeVersion": 2,
      "position": [
        220,
        0
      ],
      "id": "random string of letters and numbers",
      "name": "AI Agent"
    },
    {
      "parameters": {
        "options": {}
      },
      "type": "n8n-nodes-base.gmailTool",
      "typeVersion": 2.1,
      "position": [
        380,
        220
      ],
      "id": "f27ec884-81d6-4b9c-a4b2-7cf504a6c2f2",
      "name": "Gmail",
      "webhookId": "f1acaebc-b42a-449d-87ab-c5a9395d33d2",
      "credentials": {
        "gmailOAuth2": {
          "id": "auth ID",
          "name": "auth name"
        }
      }
    }
  ],
  {
```

```

    "parameters": {
      "options": {}
    },
    "type": "@n8n/n8n-nodes-langchain.lmChatOpenRouter",
    "typeVersion": 1,
    "position": [
      140,
      220
    ],
    "id": "b4bcd23a-7511-47b6-bcd7-e7d45e2e00a3",
    "name": "OpenRouter Chat Model",
    "credentials": {
      "openRouterApi": {
        "id": "auth ID",
        "name": "auth name"
      }
    }
  },
  {
    "parameters": {},
    "type": "@n8n/n8n-nodes-langchain.memoryBufferWindow",
    "typeVersion": 1.3,
    "position": [
      260,
      220
    ],
    "id": "60d159f2-4f9f-427d-b28c-5ae661592b07",
    "name": "Simple Memory"
  },
  {
    "parameters": {
      "schemaType": "manual",
      "inputSchema": "{\n  \"type\": \"object\", \n  \"properties\": {\n    \"subject\": {\n      \"type\": \"string\", \n      \"description\": \"The subject line of the email\" \n    }, \n    \"email\": {\n      \"type\": \"string\", \n      \"description\": \"The body content of the email\" \n    } \n  }, \n  \"required\": [\"subject\", \"email\"] \n}"
    },
    "type": "@n8n/n8n-nodes-langchain.outputParserStructured",
    "typeVersion": 1.2,
    "position": [
      640,
      220
    ],
    "id": "dee10905-085e-4dca-9a7f-ba77ef656efb",

```

```

    "name": "Structured Output Parser"
  },
  {
    "parameters": {
      "toolDescription": "Use this tool to search the internet",
      "method": "POST",
      "url": "https://api.tavily.com/search",
      "sendBody": true,
      "specifyBody": "json",
      "jsonBody": "{\n  \"api_key\": \"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\",\n  \"query\": \"{searchTerm}\",\n  \"search_depth\": \"basic\",\n  \"include_answer\": true,\n  \"topic\": \"news\",\n  \"include_raw_content\": true,\n  \"max_results\": 3\n} ",
      "placeholderDefinitions": {
        "values": [
          {
            "name": "searchTerm",
            "description": "What the user has requested to search the internet for",
            "type": "string"
          }
        ]
      }
    },
    "type": "@n8n/n8n-nodes-langchain.toolHttpRequest",
    "typeVersion": 1.1,
    "position": [
      520,
      220
    ],
    "id": "278aa4c8-4916-4fae-a75c-ecb298d44311",
    "name": "HTTP Request"
  }
],
"connections": {
  "Gmail": {
    "ai_tool": [
      [
        {
          "node": "AI Agent",
          "type": "ai_tool",
          "index": 0
        }
      ]
    ]
  }
},

```

```
"OpenRouter Chat Model": {
  "ai_languageModel": [
    [
      {
        "node": "AI Agent",
        "type": "ai_languageModel",
        "index": 0
      }
    ]
  ],
},
"Simple Memory": {
  "ai_memory": [
    [
      {
        "node": "AI Agent",
        "type": "ai_memory",
        "index": 0
      }
    ]
  ],
},
"Structured Output Parser": {
  "ai_outputParser": [
    [
      {
        "node": "AI Agent",
        "type": "ai_outputParser",
        "index": 0
      }
    ]
  ],
},
"Tavily": {
  "ai_tool": [
    [
      {
        "node": "AI Agent",
        "type": "ai_tool",
        "index": 0
      }
    ]
  ],
}
```

```
,
"pinData": {},
"meta": {
  "templateCredsSetupCompleted": true,
  "instanceId":
"95e5a8c2e51c83e33b232ea792bbe3f063c094c33d9806a5565cb31759e1ad39"
}
}
```

Sticky Note

```
{
  "nodes": [
    {
      "parameters": {
        "content": "## Sticky Note Title\nSticky note text"
      },
      "type": "n8n-nodes-base.stickyNote",
      "typeVersion": 1,
      "position": [
        1400,
        -460
      ],
      "id": "ae20053d-915d-4aa2-a9b7-e05b07152a9f",
      "name": "Sticky Note2"
    }
  ],
  "connections": {},
  "pinData": {},
  "meta": {
    "templateCredsSetupCompleted": true,
    "instanceId":
"95e5a8c2e51c83e33b232ea792bbe3f063c094c33d9806a5565cb31759e1ad39"
  }
}
```