

Conversational voice agent with Livekit

↳ OpenSource

① Imports

- dotenv
- agents from livekit
- livekit.agents
 - ↳ Agent
 - AgentSession
 - RunContext
- livekit.agents.llm
 - ↳ function_tool
- livekit.plugins
 - ↳ openai
 - ↳ deepgram
 - ↳ Silero
- datetime → date time
- os

② ~~Class~~ Agent class

class Assistant(Agent):
(Basic voice assistant with Asyncio blocking cap!)

* Adding basic tool to our voice agent.



eg.

```
class Assistant(Agent):
```

```
    @function_tool
```

```
    async def get_current_date_and_time(self,
```

```
        context: RunContext) -> str:
```

```
        """ Get current date & time
```

```
        current_datetime = datetime.now().strftime("%Y-%m-%d %H:%M:%S")
```

```
        return f"Current date & time is {current_datetime}"
```

• Add tool to search for latest information from internet

① --init-- →

Instructions = sys_prompt

→ outside class

② async def entrypoint(ctx: AgentJobContext):
entry point for the agents

session = AgentSession(

stt = deepgram.STT(model="nova-2")

llm = openai.LLM(model="gpt")

tts = openai.TTS(voice="echo")

vad = silero.vad.load()

await session.start(

room = ctx.room,

agent = AssistantU

)

await session.generate_reply(

instructions = "Greet the user warmly"

)

③ if __name__ == "__main__":

agents_cli.run_sup(agent_worker_options | entrypoint,
func = entrypoint)