

# Posit Generative AI Solutions

## Summary

Posit provides a range of tools and LLM-related packages for both R and Python. The most general-purpose packages are [ellmer](#) (R) and [chatlas](#) (Python), which handle connecting to LLMs and managing communication. To build a chatbot in Shiny, use [shinychat](#), available in both R and Python. Posit also offers packages for [retrieval-augmented generation](#), [natural language processing](#), and the [Model Context Protocol](#).

Access the power of LLMs in R and Python



The [ellmer](#) package simplifies LLM integration in R. Ellmer provides a consistent interface to multiple LLM providers, with features like streaming, tool calling, and structured data extraction.

- [Documentation](#)
- [Release Blog Post](#)



The [chatlas](#) package simplifies LLM integration in Python. Chatlas offers a unified interface across LLM providers for tasks like streaming chats, tool calling, and structured output.

- [Documentation](#)
- [Release Blog Post](#)



The [ragnar](#) package enhances LLM performance with Retrieval-Augmented Generation (RAG) in R, which allows you to retrieve relevant external data to inform responses.

- [Documentation](#)

## Shinychat and ui.Chat

Shiny components integrate interactive chat interfaces into Shiny applications with a dedicated UI component.

- [Shinychat Documentation](#)
- [ui.Chat Documentation](#)

## querychat

querychat is a drop-in component for Shiny that allows users to query a data frame using natural language.

- [Documentation](#)

## Automate and enhance data science tasks with GenAI



The [chores](#) package automates repetitive coding tasks with LLM-powered assistants. Use customizable shortcuts to trigger code rewrites and enhancements directly in your R environment.

- [Documentation](#)
- [Technical introduction](#)



The [gander](#) package enhances data science workflows in RStudio and Positron with intelligent, in-line LLM chats. Gander integrates Ellmer chats into your projects, providing context-aware responses and streaming results directly into your documents.

- [Documentation](#)
- [Technical introduction](#)



The [mall](#) package applies LLM predictions to data frames efficiently. Process rows with pre-defined prompts for batch analysis in both R and Python.

- [Documentation](#)
- [Technical Introduction](#)

## lang

The [lang](#) package translates R function help documentation on-the-fly to other languages such as Spanish or French. Lang overrides help functions to provide instant translations within RStudio and Positron.

- [Documentation](#)

## IDE Integrations

### Positron Assistant

*Experimental feature in Positron 2025.06.0*

Positron Assistant transforms [Positron](#) into an AI-powered data science workspace, deeply integrated with your tools and workflows while leveraging enterprise-grade LLM providers.

- [User Guide](#)

## Shiny Assistant

[Shiny Assistant](#) accelerates Shiny development with an AI assistant. Get help with Shiny questions, create applications from scratch, or modify existing code in R and Python.

- [Shiny Assistant](#)
- [Release Blog Post](#)

## GitHub Copilot

[GitHub Copilot](#) enhances coding productivity with AI-powered code suggestions directly within RStudio.

- [Documentation](#)
- [Release Blog Post](#)

## chattr

The [chattr](#) package allows you to interact with LLMs directly from RStudio. Submit prompts from scripts or use the Shiny gadget for interactive conversations.

- [Documentation](#)
- [Technical Introduction](#)

## Enhance your LLM workflow



The [btw](#) package helps you describe your computational environment to LLMs.

- [Documentation](#)
- [Technical Introduction](#)



The [vitals](#) package provides a framework for large language model evaluation in R.

- [Documentation](#)
- [Technical Introduction](#)



The [mcptools](#) package implements a [Model Context Protocol \(MCP\)](#) server for your R sessions.

- [Documentation](#)

## Enable effective observability

### [otel](#)

Use the [otel](#) package as a dependency if you want to instrument your R package or project for OpenTelemetry.

### [otelsdk](#)

Use the [otelsdk](#) package to produce OpenTelemetry output from an R package or project that was instrumented with the [otel](#) package.

## AI demonstrations, use cases, and best practices

- [Harnessing LLMs for Data Analysis | Led by Joe Cheng, CTO at Posit](#)
- [Easy tool calls with ellmer and chatlas](#)
- [Natural language data science with RStudio and Databricks](#)
- [How to use natural language data science with RStudio and Amazon SageMaker](#)

- Announcing secure AI-Assisted data science in R with Posit and Snowflake Cortex
- AI tool built with Posit decreases unexpected deaths of hospitalized patients by 26%
- Generate data with an LLM and ellmer
- Text Summarization, Translation, and Classification using LLMs
- The potential for AI-powered Shiny app prototyping with Shiny Assistant
- Running AI/LLM Hackathons at Posit: What We've Learned
- Trail Running Meets Data Science: Adventures with LLMs and Race Stats

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- Book a workshop: <https://posit.co/ai-contact/>