

Experimenting with LLM Applications in R

Nic Crane

I  LLMs?

Project 1

Social Media Post Generator



Ladies



[HOME](#) [ABOUT](#) [DIRECTORY](#) [ACTIVITIES](#) [BLOG](#)

January 16, 2025

WE'RE RELAUNCHING THE R-LADIES ABSTRACT REVIEW SYSTEM!

We know how challenging it can be to take that first step into public speaking and submit an abstract for a conference.

That's why we're thrilled to announce the relaunch of the R-Ladies Abstract Review System! 🎉

Our system connects aspiring speakers with reviewers who provide feedback and guidance, helping them refine their abstracts and scholarship applications.





Social Media Post Generator

GitHub Markdown Link

<https://github.com/thisisnic/blog/blob/>

Select Platforms

- ☒ LinkedIn
- ☒ Bluesky
- ☒ Mastodon

Select Tone

Informative

Posts to Generate (per platform)

3

- ☒ Use Emojis?

Hashtags to Include

#rstats

Generate Posts

Generated Posts

Okay, here are three social media posts tailored for each platform – LinkedIn, Bluesky, and Mastodon – to promote your blog post about generating social media content with {shiny} and {ellmer}. I've used an informative tone with relevant emojis and hashtags.

****LinkedIn****

1. ****Headline:**** Streamlining Social Media Promotion with R and AI 🚀

****Body:**** As a data scientist, I'm always looking for ways to automate repetitive tasks. In my latest blog post, I share how I built a Shiny app using the 'ellmer' package to leverage Google's Gemini API for generating social media posts from a blog post. This project shows how the power of LLMs can be harnessed within R to boost productivity. Check out the app, give it a go and let me know your thoughts! Link to the blog post in the comments. #rstats #AI #Shiny #Rlang #DataScience #Automation #Ellmer

2. ****Headline:**** Blog Post Promotion Made Easy with {shiny} and LLMs 🤖

****Body:**** Tired of spending hours crafting social media posts for your blog content? I was too! That's why I built a Shiny app that uses the 'ellmer' package and Google's Gemini API to automatically generate engaging social media content. The app allows you to customise the output, and get platform-appropriate posts. In this post, I walk you through the process and share the code. Read the full article here: [Link to Blog Post] #rstats #AI #Shiny #Rlang #DataScience #SocialMediaMarketing

3. ****Headline:**** From Blog Post to Social Media: Automating Content Promotion with R 📄

****Body:**** Promoting your blog posts can be time-consuming. I recently developed a Shiny app using the 'ellmer' package to automate this process by leveraging the power of Google's Gemini API. The app takes your blog post's markdown file as input and generates tailored social media posts. I'm planning on adding support for OpenAI and Anthropic in the future. Want to learn more? Check out the full blog post and the GitHub repo. [Link to Blog Post] #rstats #AI #Shiny #Rlang #DataScience #ContentMarketing #Automation

GitHub Markdown Link

5-02-03-submit_posit_conf/index.en.md

Select Platforms

☒ LinkedIn

☒ Bluesky

☐ Mastodon

Select Tone

Playful ▼

Posts to Generate (per platform)

2

☒ Use Emojis?

Hashtags to Include

#rstats #rladies

Generate Posts

<https://github.com/thisisnic/socialmediagen>

Generated Posts

Okay, here are two playful social media posts for each platform (LinkedIn and Bluesky) to promote the blog post, incorporating emojis and relevant hashtags:

****LinkedIn Posts****

****Post 1:****

🔥 Calling all #rstats & #rladies enthusiasts! Nervous about submitting a video abstract for Posit Conf 2025? Don't sweat it! 😊 Our latest blog post is packed with tips and tricks from past speakers to help you nail that one-minute pitch. From tech recommendations to structure advice, we've got you covered. Plus, we're offering feedback! Check it out and get ready to shine! ⭐ [Link to Blog Post] #PositConf #DataScience #Speaking

****Post 2:****

Thinking of leveling up your career by speaking at Posit Conf 2025? 🚀 Your video abstract is your first impression! Want to make it count? 😬 We've compiled the best advice from experienced speakers (including the secret to Nic Crane's infectious enthusiasm 😊) in our new blog post! Get the inside scoop and submit your best abstract yet! ⭐ [Link to Blog Post] #rstats #DataVisualization #PublicSpeaking #PositConf

****Bluesky Posts****

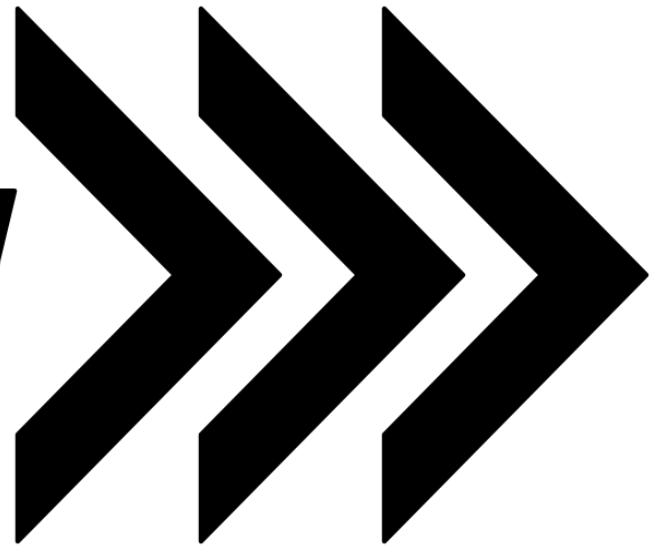
****Post 1:****

Posit Conf 2025 talk submissions are open! 🗨️ But the video abstract... *shudders*. Fear not, fellow data wranglers! We've got a blog post with tips from past speakers to make it less scary. Think of it as your 60-second shot at data stardom! ⭐ [Link to Blog Post] #rstats #PositConf #DataScience #VideoTips (Also, pro tip: a little enthusiasm goes a LONG way! 😊)

Project 2

Arrow Mailing List Summariser

APACHE
ARROW



<https://lists.apache.org/list.html?dev@arrow.apache.org>

Available projects (387):

dev@arrow.apache.org, past month:

Showing 1 through 20 of 26 topics

dev	github	commits	issues	Other lists (3):
	Matt Topol	[VOTE][Go] Release Apache Arrow Go 18.3.1 RC0	Hi, As requested by a community member[1], I would lik...	2025-06-18 23:05 +01:00
	Nic Crane	[DISCUSS] Monorepo maintenance - closing stale is...	Hey folks, I'm having a bit of a tidy up of the monorepo a...	2025-06-18 18:12 +01:00
	Ian Cook	Arrow community meeting June 18 at 16:00 UTC	Our next biweekly Arrow community meeting is tomorro...	2025-06-17 23:23 +01:00
	Andrew Wet...	End of Windows Server 2019 runner support	Good day: Infra received this message from GitHiub: Hel...	2025-06-17 14:16 +01:00
	Nic Crane	Maintenance dashboard - Dev mailing list summary	Hi folks, I've been finding myself wanting a high-level ov...	2025-06-17 13:26 +01:00
	Raúl Cumplido	Re: [C++] Deprecate Skyhook?	Hi, I've started the work to remove skyhook from the mai...	2025-06-16 08:36 +01:00
	Nic Crane	Re: Kapa.ai bot now live on the dev docs	An update for folks on this - I've extracted a few statistics...	2025-06-12 15:23 +01:00
	Nic Crane	[RUST] Open (stale?) issues in the monorepo	Hey Rust folks! I was just having a tidy up of some old/st...	2025-06-12 15:10 +01:00
	Rok Mihevc	[Discuss] Using donated AWS credits for CI, bench...	Hi all. We applied for promotional open source credits f1	2025-06-12 11:28 +01:00



Summary

Issues

PRs

Stack Overflow

Mailing List



Open Issues

15



Issues from New Contributors

5



Issues with No Replies

3

All open issues, new contributors highlighted

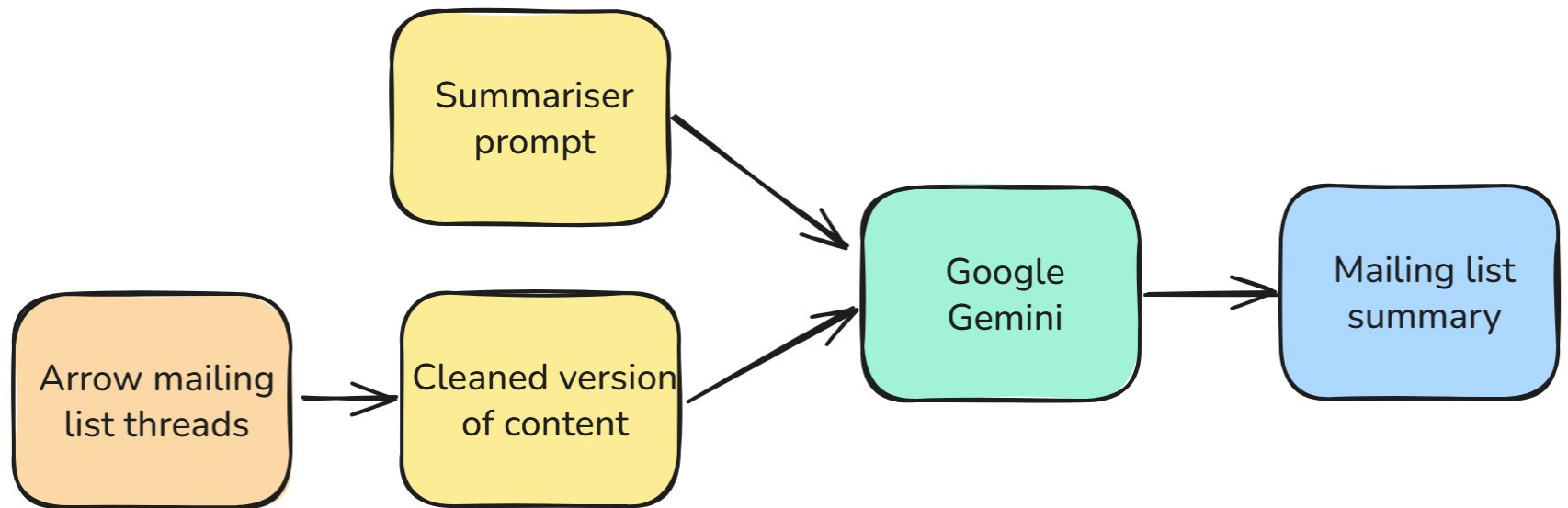
Copy

CSV


Excel

Search:

Date	GitHub title	GitHub link
Mon Jun 30 2025	[R] CRAN packaging checklist for version 21.0.0	https://github.com/apache/arrow/issues/46950
Thu Jun 26 2025	[R] Test for negative fractional dates fails on older R versions due to change in base R as.Date()	https://github.com/apache/arrow/issues/46916
Thu Jun 19 2025	[C][C++][R] R Sanitizer for M1 fails on S3FileSystem	https://github.com/apache/arrow/issues/46863



https://tinyurl.com/arrowdash

 Arrow Maintainer Dashboard
updated Fri Jul 04 09:09:43 2025 UTC

Python R Overall Summary Maintenance Stats

Mailing List Summary

The content below is an LLM summary of this month's activity on the mailing list.

Ongoing Discussions

- **C++ Build System Improvements:** Debates continue on simplifying C++ CMake build configurations, specifically for static/shared library linkage. The Meson build system is also being explored. [Thread](#)
- **Parquet/Iceberg Interval Type Compatibility:** Discussions center on how to represent new interval types from Iceberg/Parquet in Arrow, weighing new types versus existing or extension types. [Thread](#)
- **Arrow Variant Extension Type:** The community is discussing canonicalizing a "Variant" extension type, primarily for Parquet compatibility, with ongoing discussions on naming. [Thread](#)

Emerging Themes

- **Component Decoupling & Monorepo Rationalization:** Efforts proceed to split language implementations (e.g., Swift) and niche components (Skyhook) into separate repositories to reduce maintenance burden. [Thread](#)
- **Legacy Feature Removal:** The project aims to deprecate and remove older features, such as the Feather V1 reader/writer in C++, encouraging migration to newer formats. [Thread](#)
- **Enhanced Community Engagement:** The Kapa.ai documentation bot demonstrates strong utility for user queries. The project also welcomed new PMC member Alenka Frim, signifying community growth. [Thread](#) [Thread](#)

Potential Roadblocks

Project 3

Using Copilot





+



?

[R] Sub-day precision Date class must be converted to integers floor, not trunc #44502

✓ Closed



eitsupi opened on Oct 22, 2024

Contributor ...

Describe the bug, including details regarding any error messages, version, and platform.

Same as [apache/arrow-nanoarrow#665](#)

```
d <- as.Date(-0.1)
d
#> [1] "1969-12-31"
as.vector(arrow::as_arrow_array(d))
#> [1] "1970-01-01"
```



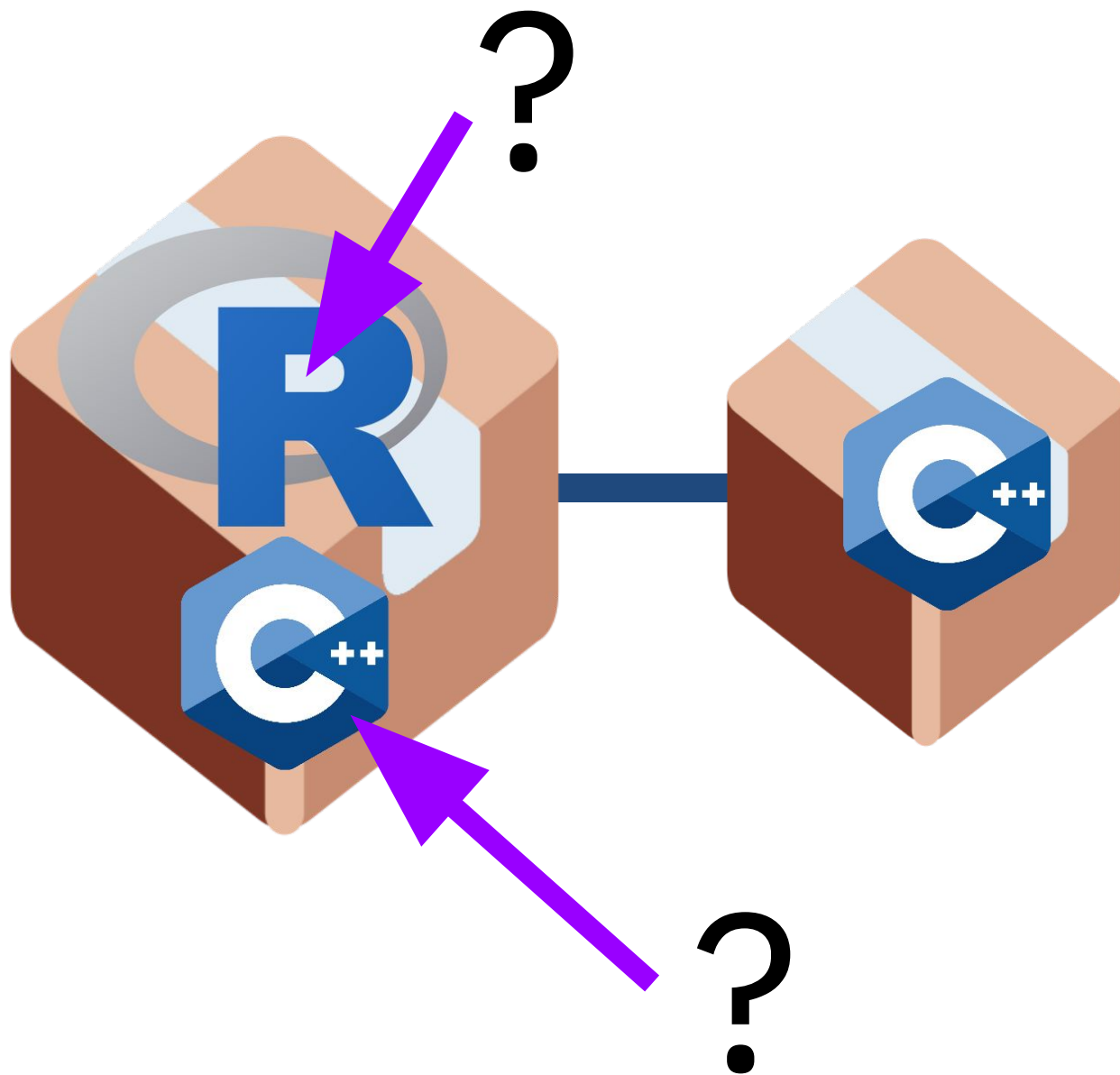
Created on 2024-10-22 with [reprex v2.1.1](#)


Component(s)








R



Create sub-issue






















thisisnic

How do I ensure that when dates are being converted to Arrow they are floored and not truncated

 type.R:175-230



GitHub Copilot

> Used 1 reference

To ensure that dates are floored (rounded down to the nearest whole day) and not truncated when being converted to Arrow, you can modify the `DateType` or `Date32 / Date64` classes to explicitly floor the date values during conversion. This can be achieved by overriding or adding a method that processes the date values before they are passed to Arrow.

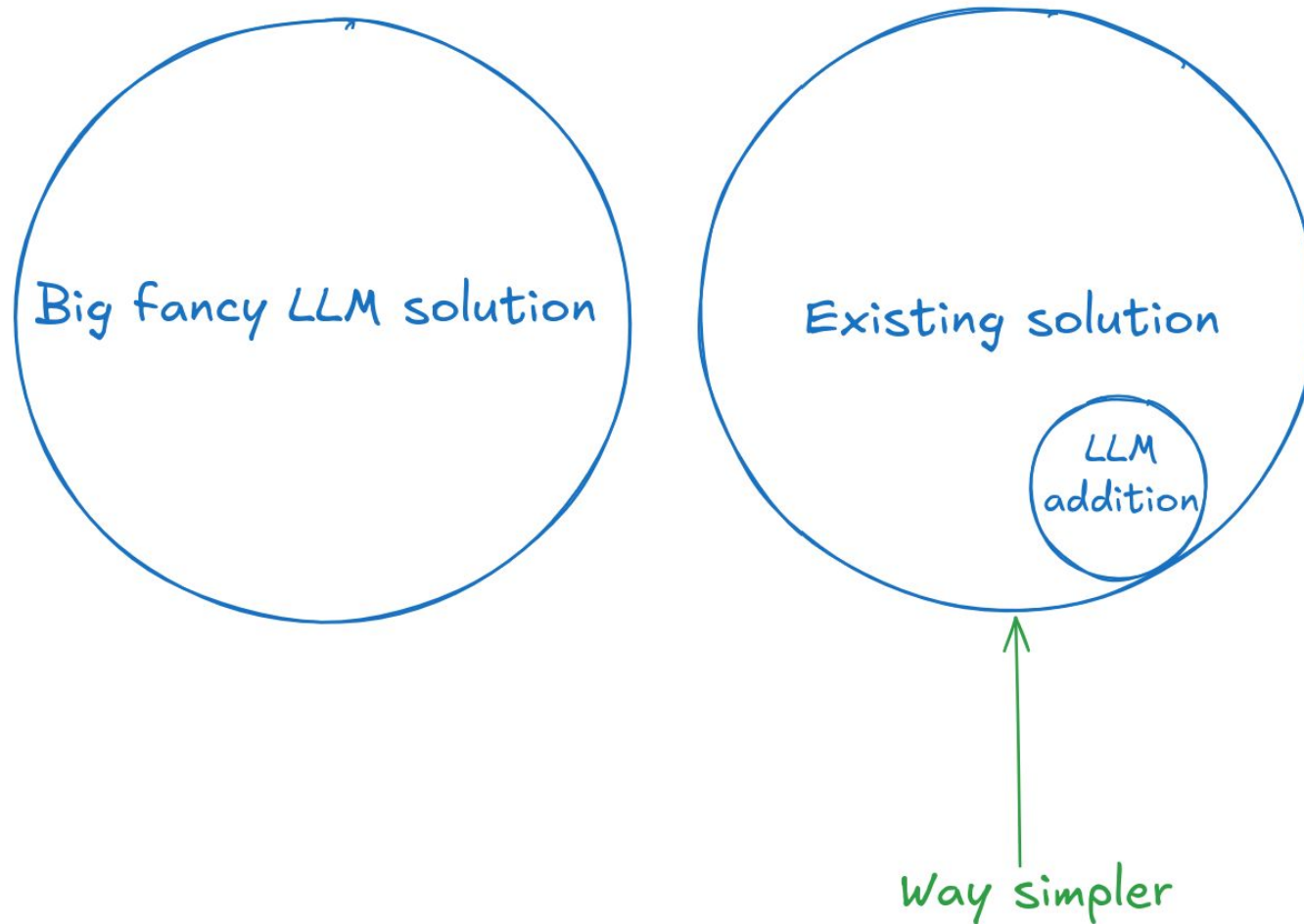
Here's how you can approach this:

6 r/src/r_to_arrow.cpp

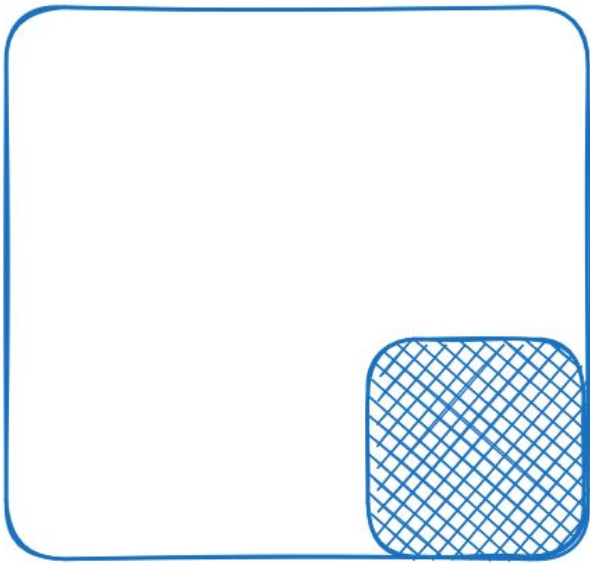
```
@@ -595,11 +595,13 @@ class RPrimitiveConverter<T, enable_if_t<is_date_type<T>::value>>
595 595     return VisitVector(it, size, append_null, append_value);
596 596 }
597 597
598 - static int FromRDate(const Date32Type*, double from) { return static_cast<int>(from); }
598 + static int FromRDate(const Date32Type*, double from) {
599 +     return static_cast<int>(std::floor(from));
600 + }
599 601
600 602     static int64_t FromRDate(const Date64Type*, double from) {
601 603         constexpr int64_t kMillisecondsPerDay = 86400000;
602 -         return static_cast<int64_t>(from * kMillisecondsPerDay);
604 +         return static_cast<int64_t>(std::floor(from * kMillisecondsPerDay));
603 605     }
604 606
605 607     static int FromPosixct(const Date32Type*, double from) {
```

I ❤️ LLMs? 

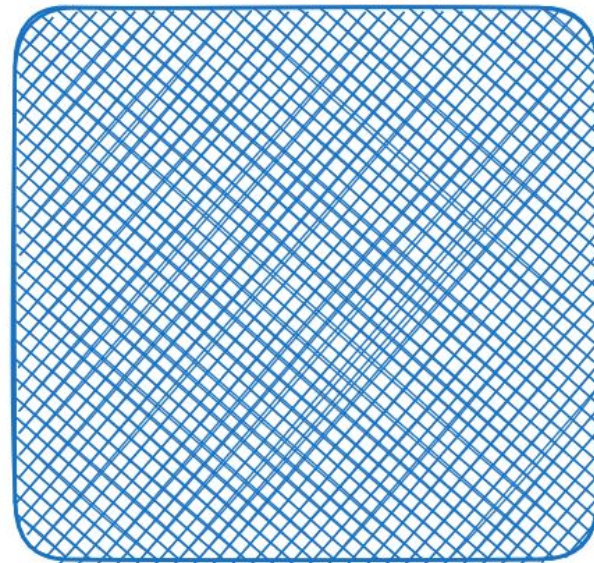
Deployment Options



Prompt Engineering

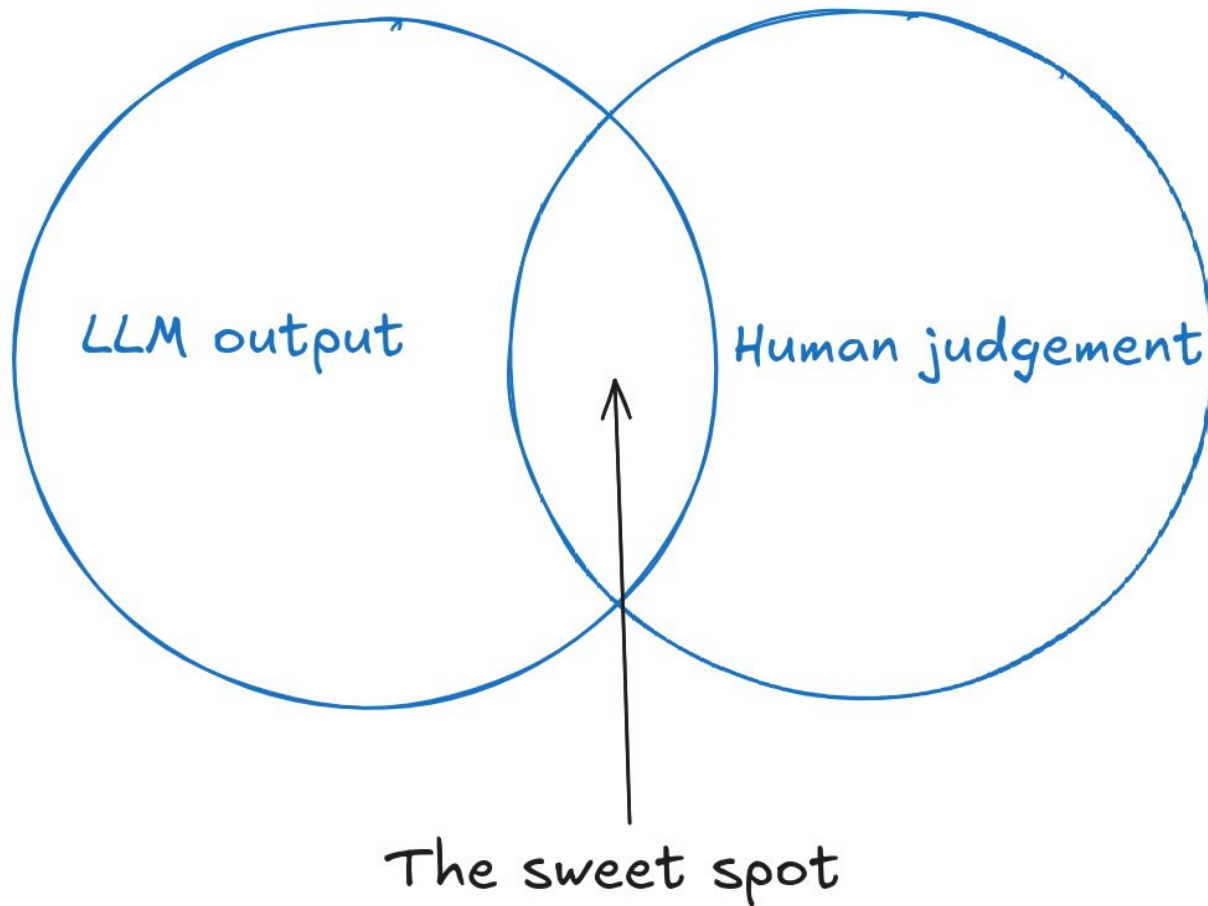


Simple prompts OK



Good prompts matter

Solving Coding/Knowledge Problems



<https://www.linkedin.com/in/niccrane/>

<https://bsky.app/profile/niccrane.bsky.social>