

Silicon Valley Jan 27, 2024

GenAI Hackathon @ AGI House

DETAILS:

- **Location:** AGI House in Burlingame
- **Date:** Sat, Jan 27th, 2024
- **Time:** 11 AM to 10 PM PST
- **Food:** Lunch, snacks and dinner will be provided
- **Event page:** <https://partiful.com/e/FiSdgG2vIKCCp2PW0g36>
- **Discord:** <https://discord.gg/z4XdCKxH> (provided by AGI House)
- **WiFi:** tbd password: tbd

Vector Search Workshop Details

Google doc: [1cHwWe9ianE1I_d_AZwX1Yd0Vv29o3XMXDFxeDqMUWXs](https://docs.google.com/document/d/1cHwWe9ianE1I_d_AZwX1Yd0Vv29o3XMXDFxeDqMUWXs)

Github Repo: [mongodb-atlas-vector-search](https://github.com/mongodb-atlas-vector-search)

Sponsor Lightning Talks (5 min each)

12:30 AM: LangChain - Lance Martin - @RLanceMartin

12:35 AM: [Codeium.com](https://codeium.com) -

12:40 AM: Gradient.ai - Tiffany


12:45 AM: [Together.AI](https://together.ai) -

12:50 AM: [Unstructured.io](https://unstructured.io) - Chris Maddock




12:55 AM: [Fireworks.AI](https://fireworks.ai) - Benny Chen

MongoDB Resources



MongoDB is a leading document database, vector database and full text search platform. Atlas Vector Search provides powerful capabilities to efficiently store and retrieve high dimensional vector embeddings for building cutting edge AI applications. There is a generous forever free tier for deploying a managed database on any leading public clouds of choice.

- Resources for hackathon
 - **Prize:** Nvidia GPU 4070 worth \$600 for each team member (up to 5 members).
 - **Credits:** To get \$100 Atlas credits, do the following:
 - Sign-up for or Login to your [MongoDB Atlas account](#) (link).
 - Sign-up for a [MongoDB Community Forums](#) (link).
 - While logged into the Community Forums, go to the [Generative AI category page](#) (link) and subscribe (click the little green bell on the right side, then choose 'Watching' from the drop down).
 - Email or find dave.nielsen@mongodb.com. Tell him you have joined the Generative AI category. He will email you the credit code.
 - Click Billing at the top of your [MongoDB Atlas account page](#).
 - Enter the code into the "Apply Code" box at the bottom of the MongoDB Atlas billing page.
 - **Lightning Talk:** Dave Nielsen
 - **Company representative(s):** 11:00 AM to 10 PM
 - **Contact:** dave.nielsen@mongodb.com
 - **Workshop:** Semantic search using MongoDB Atlas Vector Search:
Preparation Doc:  [1cHwWe9ianE1I_d_AZwX1Yd0Vv29o3XMXDFxeDqMUWXs](#)
Workshop Doc: <https://github.com/sujee/mongodb-atlas-vector-search/blob/main/setup-python-env.md>
 - List

Together.AI Resources

- Company description
 - Together AI is a research-driven artificial intelligence company contributing to leading open-source research, models, and datasets to advance the frontier of AI. Our decentralized cloud services empower developers and researchers at organizations of all sizes to train, fine-tune, and deploy generative AI models. Collaborate, innovate, and shape the future of AI with us.
- Credits
 - Together AI will be providing \$100 in API credits to **all** hackathon participants for their projects. Please redeem your credits by completing this form. Credits will be distributed on the day of the hackathon.
- Prize info
 - Best use of Together API. The winning team will receive \$2,500 in API credits and branded AirPods Max for each team member.
- Company logos
 - Colored
 -  together-branding-official_branding_darkOnLight.eps 946.3KB
 - All black
 -  together-branding-official_branding_fullBlack.eps 945.9KB
- Quickstart Guide for Hackers
 -  Together AI Hackathon Quick Start.pdf 207.2KB
- 5' min demo slides
 - pending*

Gradient Resources

- Company Description
 - Gradient is a AI development platform, that simplifies the process for you to build anything you can imagine on state-of-the-art open-source LLMs. Build, customize, and run AI applications with ease, removing the need for dedicated or complex infrastructure. With Gradient, you'll have access to a range of easy-to-use APIs for LLM development (e.g. inference, fine-tuning, and embeddings) and APIs that are designed specifically for AI uses cases (e.g. document summarization, entity extraction, etc.). With Gradient, you can experience the fastest way to develop custom AI solutions that are powered by your proprietary data so that you can get ahead of the competition.
- Prize Info
 - Best use of Gradient APIs. The wining team will receive NuPhy Air75 V2 QMK/VIA Wireless Mechanical Keyboard with NuFolio V3 Keyboard Case
- Company Logos
 -  logo-gradient-white.png 40.7KB
 -  LogoBlack.png 43.9KB
- Quickstart Guide
 - <https://docs.gradient.ai/docs/quickstart>
- Building Applications w/ Mongo & Gradient Guide
 - <https://gradient.ai/blog/creating-financial-chatbots-using-gradient-mongodb-and-llamaindex>

Unstructured.io Resources

Unstructured is the leading provider of LLM data preprocessing solutions, empowering organizations to transform their internal unstructured data into formats compatible with large language models. By automating the transformation of complex natural language data found in formats like PDFs, PPTX, HTML files, and more, Unstructured enables enterprises to leverage the full power of their data for increased productivity and innovation. With key partnerships and a growing customer base of over 30,000 organizations, Unstructured is driving the adoption of enterprise LLMs worldwide.



- Credits: N/A Unstructured is open source
- Prize info: Best use of Unstructured. The winning team will each receive custom Unstructured Nikes.
- Company logos: <https://unstructured.frontify.com/>
- Quickstart Guide for Hackers: Here is our get-started [documentation](#) and [notebook](#)
- 5' min demo slide

Fireworks Resources

[Fireworks.ai](#) provides a fast, reliable platform for developers to run generative artificial intelligence (AI) models at scale. Use Fireworks to provide your users with delightful, responsive experiences by delivering up to 4x lower latency than alternative solutions with zero compromise on model quality.

- Resources for hackathon:
 - **Website:** [Fireworks.ai](#) (start with the model [playground](#) and API [quickstart](#))
 - **Credits:** \$100 credits provided to all hackathon participants through this [form](#) and \$10 in credits upon sign-up. Embedding [model](#) is completely free to use during the hackathon
 - **Live Contact:** Benny Chen, bchen@fireworks.ai
 - **Guides:**
 - [Embeddings model guide](#)
 - [Simple RAG with Fireworks and MongoDB guide](#)
 - [Interactive RAG](#) inspiration (Fireworks proprietary function calling model [link](#))
 - **Prize info:** Usage of function calling model is especially encouraged!
 - Best chat usage of the Fireworks API - \$1,000 in Fireworks credit
 - Best search usage of the Fireworks API - \$1,000 in Fireworks credit
 - Best other usage of the Fireworks API - \$1,000 in Fireworks credit

Codeium Resources

- Company description
 - Codeium offers best in class AI code completion, search, and chat — all for free. It supports over 70+ languages and integrates with your favorite IDEs, with lightning fast speeds and state-of-the-art suggestion quality. Pro and Teams users can enjoy enhanced personalization with codebase indexing, fine-tuning, and self-hosting.
- Credits
 - Codeium will be providing free access to Codeium Pro to **all** hackathon participants. This includes unlimited autocomplete, context-aware chat, and a GPT-4 enabled assistant. Use [this form](#) to redeem using promo code `mongo-agi-house`
- Prize info: Best Developer Tools Hack
 - DJI Mini 2 SE Camera Drone + Codeium Swag Pack
- Company logos:
 -  logo_wordmark.png 87.3KB
 -  codeium_logo.svg 4.1KB
- Quick Start Guide for Hackers:
 - <https://codeium.com/download>
 - Free, unlimited autocomplete via NPM React component: <http://codeium.com/editor>
- [Demo slides](#)

LangChain Resources

- [Website: https://www.langchain.com/](https://www.langchain.com/)
- <https://youtu.be/ZvwUzcMvKil>
- <https://youtu.be/OV2ZIWFBe0s>
- <https://github.com/langchain-ai/langchain/tree/master/templates/rag-mongo>

- <https://github.com/langchain-ai/langchain/tree/master/templates/mongo-parent-document-retrieval>
- <https://github.com/langchain-ai/langchain/tree/master/templates/rag-aws-bedrock>
- <https://github.com/langchain-ai/langchain/tree/master/templates/rag-aws-kendra>
- Guide: slides [here](#)

