AWS re:Invent 2023



https://github.com/iportilla/aws

- Intros
- Farnaz
- Patrick
- Ivan
- Resources

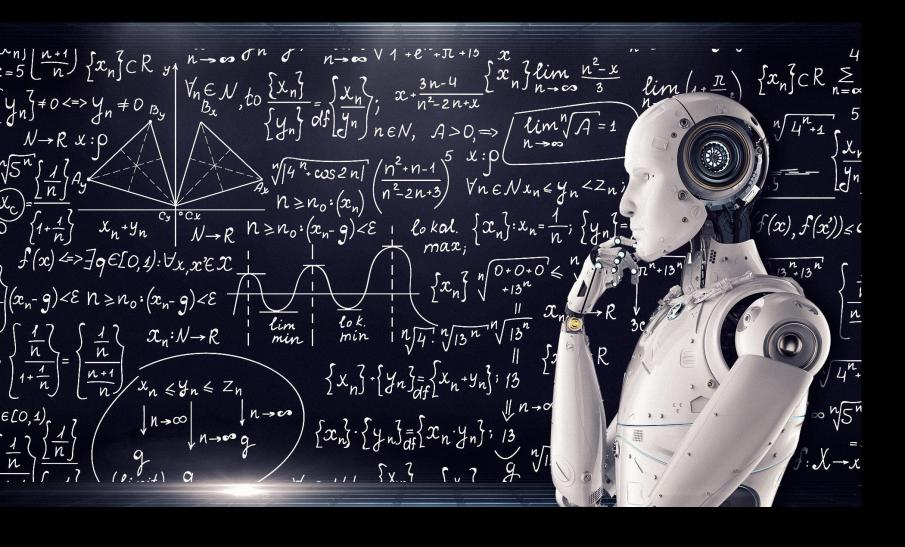


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- GenerativeAI (Bedrock)
- AI for good
- Lab

Artificial Intelligence

Machine Learning

Deep Learning

Generative AI







Model after the human brain (Neural Networks)



GenAI

- 1. Amazon Q
- 2. Code Whisperer
- 3. Open Search

Amazon Q

the AWS Framework, best practices, documentation, & solution implementations

Amazon Q











Here are the steps to add a role in Amazon SageMaker:

Amazon Q Preview

- 1. Open the IAM console at https://console.aws.amazon.com/iam (link)
- Choose Roles and then choose Create role.
- 3. For the trusted entity, select AWS service.
- 4. Choose SageMaker for the use case.
- 5. On the next page, relevant SageMaker permissions will be automatically attached. You can optionally attach additional permissions as needed.
- 6. Choose Next: Tags to add any tags for identifying and organizing the role.
- 7. Review the role details and give it a descriptive name.
- 8. Choose Create role. The new role can now be used for SageMaker activities by the appropriate IAM users or resources.

For more details on creating and managing roles for SageMaker, refer to the documentation on https://aws.amazon.com/sagemaker or the SageMaker console help. The Role Manager in SageMaker console can also simplify the process of adding roles for common use

Sources

- [1] Using the role manager (console) Amazon SageMaker
- [2] Creating an new SageMaker execution role Amazon
- [3] Role Manager FAQs Amazon SageMaker <a>[2]

Ask me anything about AWS

 \triangleright

Max 1000 characters

GenAl powered expert on patterns in

Hello! I'm Amazon Q, your AWS generative AI assistant.

Ask me anything about AWS services and features or choose a sample question below to start a conversation.

Why can't I SSH to my EC2 instance?

What is the CLI command to list all the t3.micro instances in my account?

How can I deploy a containerized web application to AWS?

I'm learning more every day. Help me improve by providing feedback. Visit the Amazon Q documentation for more information.

Additional info

Amazon Q may retain chats to provide and maintain the service. Amazon Q stores and processes your data in the N. Virginia (useast-1) Region, even if the AWS Management Console is set to a different AWS Region.

Code Whisperer

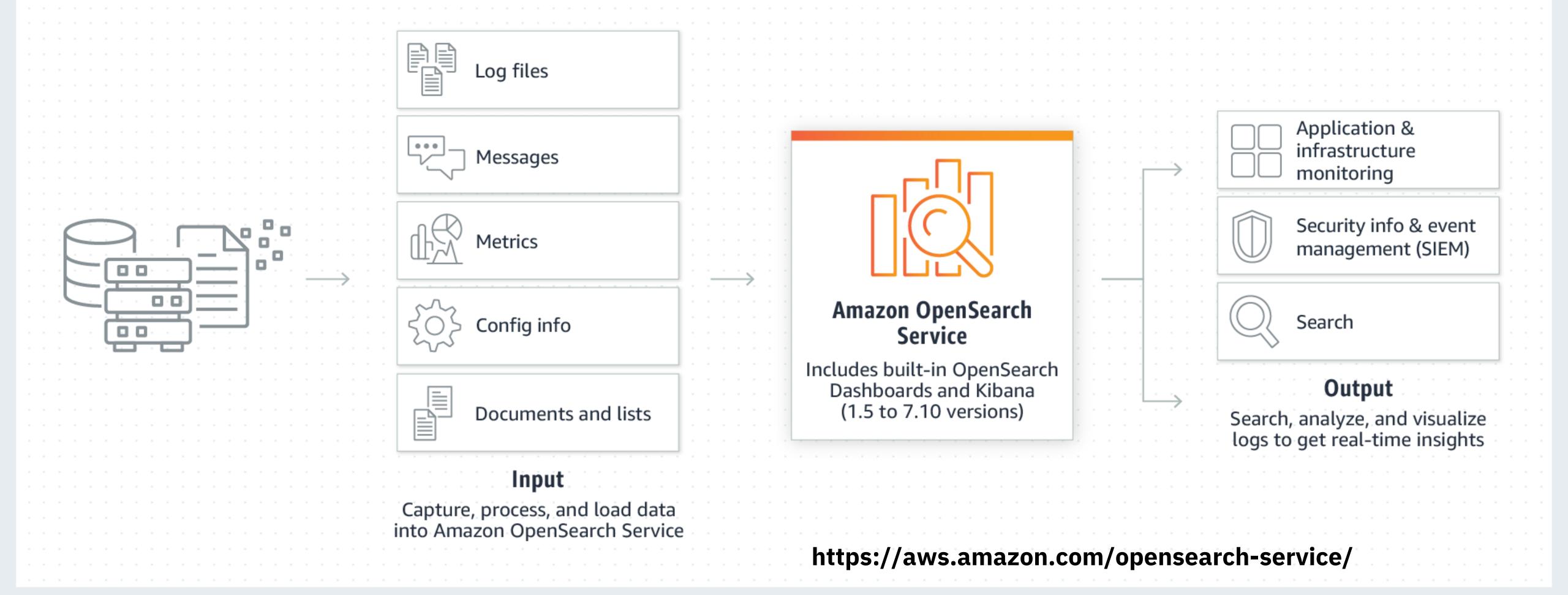
Generates code suggestions from snippets to full functions in real time in the IDE based on your comments and existing code.

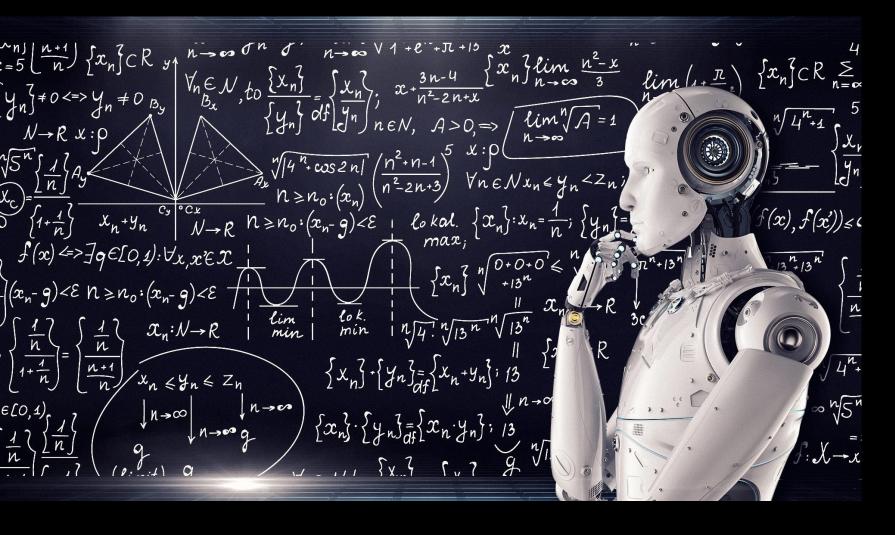
It supports CLI completions and natural-language-to-bash translation in the command line.

```
main.js
       Parse a CSV string of songs and return the list (position, originalChartDate, artist, title).
     // Ignore lines starting with #.
      function parseCSV(csvString) {
        const songs = [];
        const lines = csvString.split('\n');
        for (let i = 0; i < lines.length; i++) {</pre>
          const line = lines[i];
          if (line.startsWith('#')) continue;
          const [position, originalChartDate, artist, title] = line.split(',');
          songs.push({
10
            position: parseInt(position),
            originalChartDate,
12
            artist,
13
            title
          });
15
        return songs;
18
19
          Amazon CodeWhisperer
20
21
22
```

Open Search Service

Perform interactive log analytics, real-time application monitoring, website search, and more.

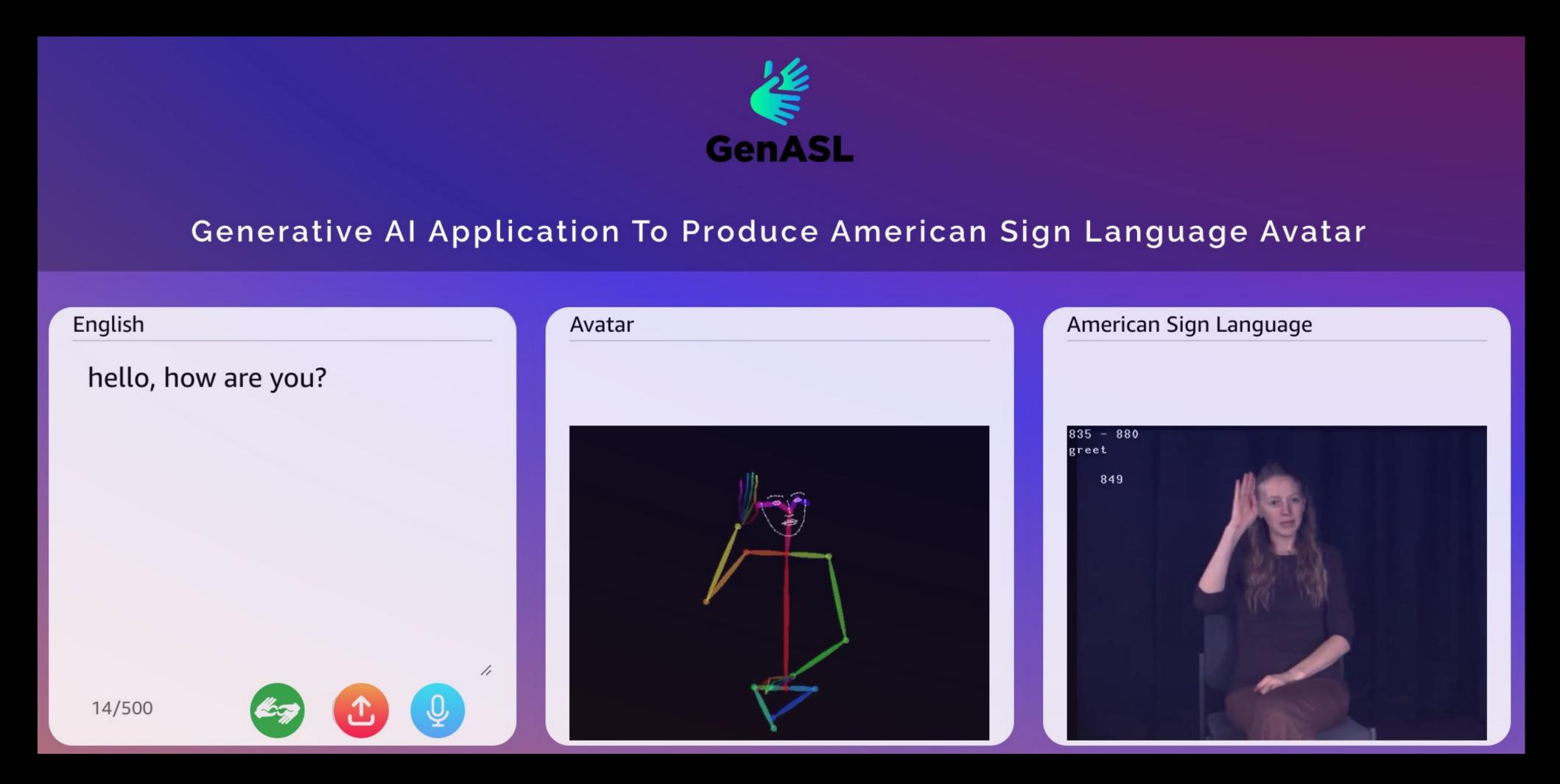




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GenAI for American Sign Language



https://www.genaslavatars.com/

Lab

Prompt Engineering

(Ping to register)

Text Classification

Named Entity Recognition (Zero-Shot)

Extract the name and mailing address from this email:

Dear Kaylee,

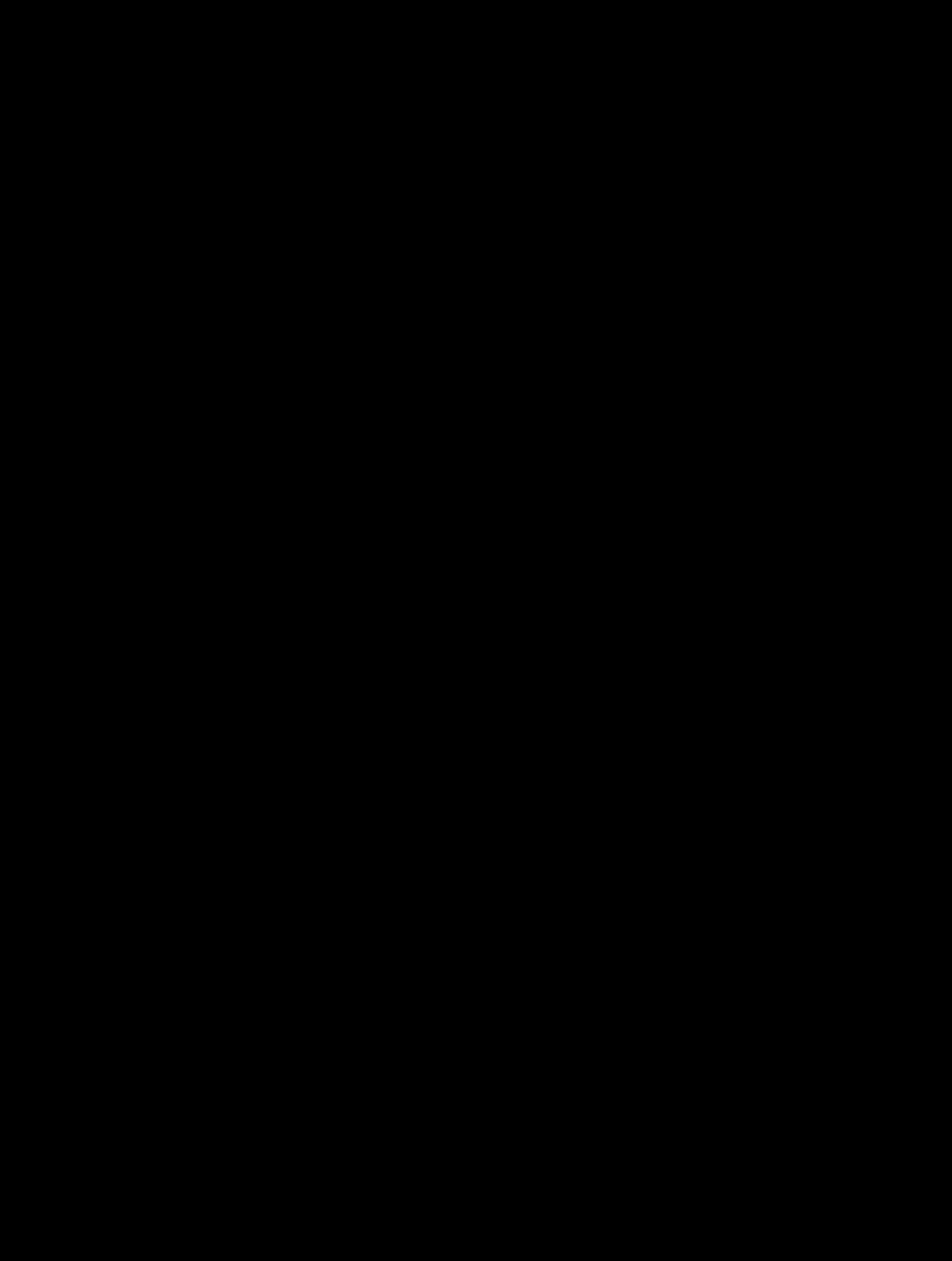
It was great to talk to you at the seminar. I thought Jane's talk was quite good.

Thank you for the book. Here's my address 2111 Ash Lane, Boulder, CO 80301

Best, Marilú

Name: Marilú

Mailing Address: 2111 Ash Lane, Boulder, CO 80301



Resources

https://aws.amazon.com/events/events-content/

https://reinvent.awsevents.com/on-demand

https://github.com/iportilla/amazon-bedrock-workshop