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WPS309

Aiding natural-disaster responses with Amazon SageMaker and Amazon Comprehend

Sharlina Keshava

Cloud Consultant Amazon Web Services

Kate Werling

Sr. Solutions Architect – AI/ML Specialist Amazon Web Services





Introductions

- Problem statement
- Demo: Application walkthrough
- **Demo Architecture**
- Demo: How we built the Amazon SageMaker machine learning models
- Demo: Amazon Comprehend integration
- Q&A

Related breakouts

AIM366-R, -R1: SpaceNet: ML to solve mapping challenges

AIM329: Using deep learning to track wildfires and air quality

WPS323: Monitoring the Earth without costing the world

AIM205-R, -R1: Starting the enterprise ML journey, featuring ProSiebenSat.1 Media SE



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What happens when disaster strikes?

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The fundamentals of emergency response

- 1. Search-and-rescue and emergency medical services come first
- 2. Widespread injuries occur simultaneously, overwhelming medical systems
- 3. The urgent need for shelter, food, water, medicine for displaced persons takes precedence

- 4. The type of disaster affects the types of health services required
- 5. Attention must be given to displaced communities and their needs
- 6. Logistical flexibility must be employed as unique challenges present themselves

The fundamentals of emergency response

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How can machine learning help us respond more effectively to a natural disaster?

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food, water, medicine for displaced persons takes precedence

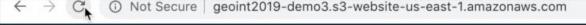
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Source: https://www.directrelief.org/fundamentals-emergency-response/

Demo application walkthrough

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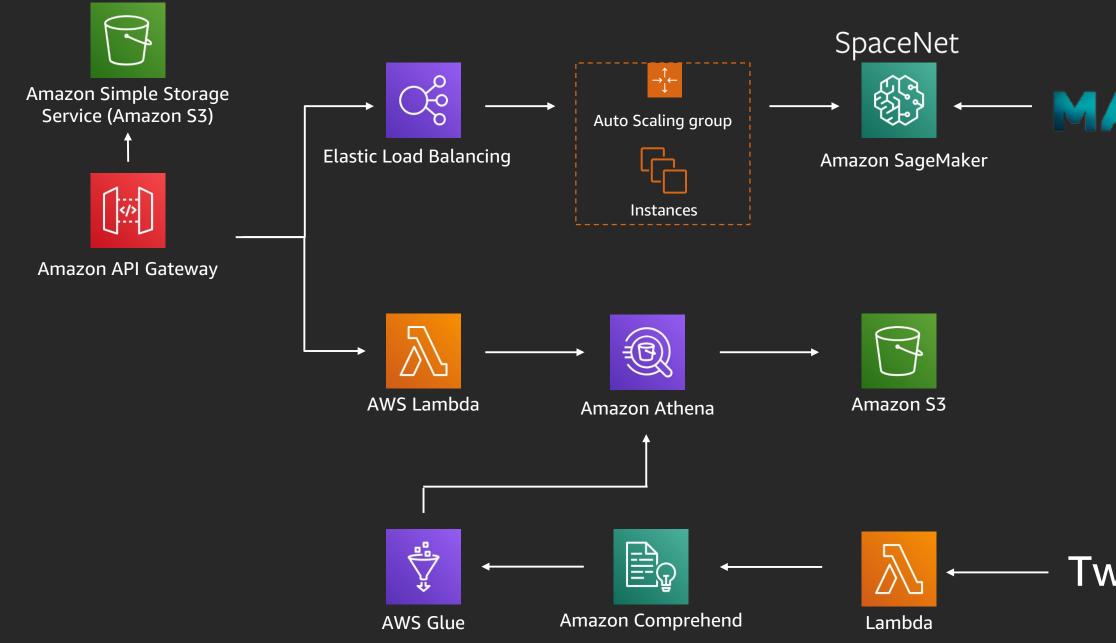


Natural Disaster Assesment





Demo application architecture







Demo: Building the Amazon SageMaker models

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Demo: Integrating Amazon Comprehend

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Thank you!

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