

A blurred screenshot of a Minecraft world, showing a mix of green grass, blue water, and brown land. The text is overlaid on this background.

# *Generative AI Agents for Minecraft: Automating Creative World Tasks with Amazon Bedrock*

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Project Progress – Sprint 1

## Team Members

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## Project Overview

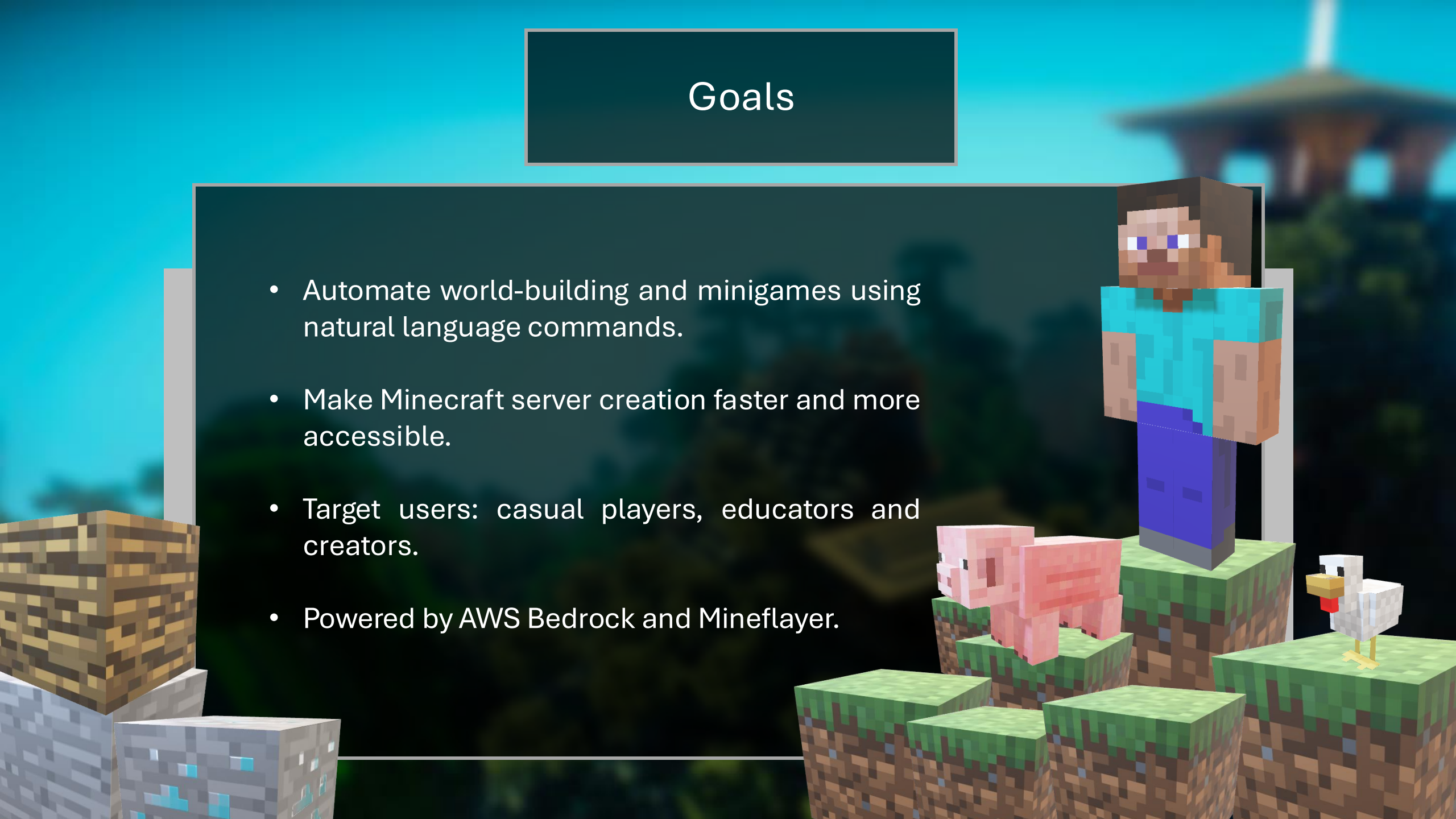
An AI-powered Minecraft agent that automates world-building and gameplay with natural language commands, using Amazon Bedrock.





# Goals

- Automate world-building and minigames using natural language commands.
- Make Minecraft server creation faster and more accessible.
- Target users: casual players, educators and creators.
- Powered by AWS Bedrock and Mineflayer.



# Work Accomplished

- Backend setup with Mineflayer.
- CloudFormation template created.
- Basic AI command execution.
- Local testing environment completed.
- Demo video showcasing functional prototype.
- Sprint retrospective.





## User Stories Completed – Sprint 1

### User Story 1

#### Quick World Generation for New Server Owners

- Command Used: Build a house.
- Outcome: Testerbot successfully built a small wooden house in response to the chat command





## User Stories Completed – Sprint 1

### User Story 2

#### Real-time Chat Interaction with AI

- Command Used:  
follow me, stop follow,  
dance.
- Bot responses:  
Following you!,  
Stopped following!,  
Let me show you my  
moves!





## Progress vs Original Goals

### Original Sprint 1 Goals

- Setup backend infrastructure.
- Implement basic structure generation.
- Connect Minecraft with bot using Mineflayer.
- Local testing.



### User Stories Completed

- Quick World Generation
- Real-time Chat Interaction.
- Basic AI Responses.

### Pending – Pushed to Sprint 2

- AWS Bedrock Integration





## Sprint 2 Preview

1. Integrate AWS Bedrock.
2. Enable complex structure generation.
3. Implement real-time execution testing.



Thank You!

