

Preparing for: Call for Code AI Spot Challenge for a Safer Planet

Part 1: Scoping out a winning solution

August 3, 2021

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Join YouTube Live

Announcement (completed, available on demand)

<https://youtu.be/jIKzPcufnR8>

Prep session 1: Scope out a winning solution, August 3, 3pm ET

<https://youtu.be/2EJpu7iIPEU>

Prep session 2: Checklist and best practices. August 10, 1230pm ET

<https://youtu.be/dImX77KWMNo>



Announcing

Call for Code
#AISpotChallenge

Join YouTube @IBM Developer

July 27, 2021, Tuesday
8am PT / 11am ET / 3pm GMT

AI
Bootcamp

Call for Code
#AISpotChallenge

**Can you help create a safer
planet with AI?**
Scope out a winning solution!

Join YouTube @IBM Developer
August 3, 2021, Tuesday
12pm PT / 3pm ET / 7pm GMT



AI
Bootcamp

Call for Code
#AISpotChallenge

Checklist and best practices
Increase your chance of winning
GRAND PRIZES

Join YouTube @IBM Developer
August 10, 2021, Tuesday
930am PT / 1230pm ET / 430pm GMT



What is Call for Code **AI Spot Challenge** **for a Safer Planet?**

- What does it mean to save a planet with AI?
- What's unique about AI-powered solutions?
- How do you use prediction and optimization?
- What can I do if I get stuck?

Submission Deadline:
August 18

What does it mean to save a planet with AI?

Questions to ask

- What challenges are we facing today for safety?
 - Extreme weather events
 - Old buildings and constructions
 - Public safety
 - Crimes
- How are we detecting issues now?
 - Sensors
 - Areal maps
 - Videos
 - References
- Are there ways to do this better at scale and efficiently?
 - Increase prediction accuracy
 - Automate processes
 - Optimize allocations – equipment, people, processes, etc.

Making our planet safer with AI

Through AI-powered prediction, optimization and automation, we can help mitigate physical and cyber threats and risks. For example:

- **Predict** potential construction risks and hazardous conditions
- Develop contextual **intelligence** to share with public
- **Anticipate** weather events and disasters for increased readiness
- Reduce construction or worksite accidents, theft, and **vandalism**
- **Optimize** scheduling and allocations of resource and match supply and demand
- Assess **risk** and needs and deliver solutions to communities in need



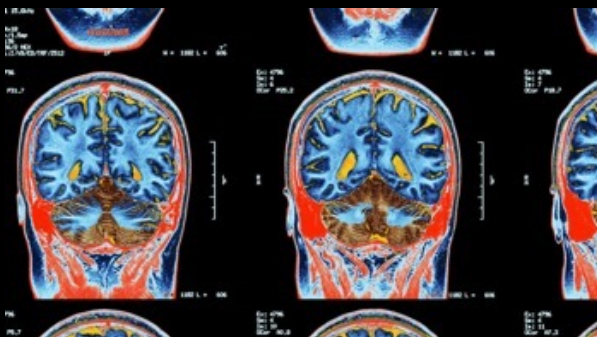
What's unique about AI-powered solutions?

Industry and cross-industry solution ideas

- Use imaging and video
- Automate and scale data processing
- Match supply and demand
- Predict and assess threat rapidly
- Send AI-powered equipment that is too dangerous for humans

AI-Powered Solution Examples

Deploy machine learning to deep learning, decision optimization, linguistic and virtually any other models



Healthcare: imaging, diagnostics and drug discovery

Speed image analytics at scale and improve patient outcomes



Transportation: proactive maintenance and risk mitigation

Decrease maintenance costs and ensure safety



Energy, utilities : shape demand and supply with resilience

Modernize energy supply, manage demand and protect infrastructure



Cross-industry: Cyber security and fraud

Detect and proactive address security incidents



Cross industry: contact center automation

Improve experience and accelerate resolution with tonal analysis and natural language processing



Cross-industry: workforce and logistics management

Optimize virtual and onsite staffing with routing and assets tailored to demand

How do you use prediction and optimization

Consider:

- Prediction
 - Predict where potential safety issues occur
 - Understand risk levels
 - Use prediction to make your apps smarter
- Optimize
 - Allocations of people and other resources where a help is needed most
 - Schedule tasks to resolve issues
 - Conduct what-if analysis

Run any AI models

Deploy machine learning to deep learning, decision optimization, linguistic and virtually any other models

Discover and predict

Discovery

- Trends & patterns
- Correlations
- Insight for hypotheses

Prediction

- Segmentation and attrition
- Contact center optimization
- Predictive/preventive maintenance
- Risk / governance / Fraud

Optimize decision

Decision Optimization

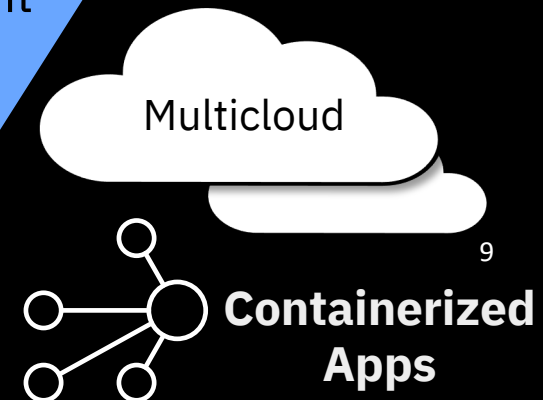
- Scheduling
- Demand and supply matching
- Allocation
- Logistics
- Pricing and category management
- Scenario planning



Continuous
AI Model
Governance

To drive action and business results in a prescriptive way

Automated AI lifecycle management



What can I do if I get stuck?

Call for Code®

AI Spot Challenge:

Submit your technology solution for Call for Code AI Spot Challenge.

[Start now](#) press Enter ↵

"2021 CALL FOR CODE AI SPOT CHALLENGE" CONTEST PARTICIPATION AGREEMENT

NO PURCHASE NECESSARY. A PURCHASE OR PAYMENT OF ANY KIND WILL NOT INCREASE YOUR CHANCES OF WINNING. VOID WHERE PROHIBITED. ENTRY INTO THIS CONTEST CONSTITUTES ACCEPTANCE OF THIS PARTICIPATION AGREEMENT.

Participants of this event must be 18 years old or have reached the age of emancipation in the jurisdiction in which they are submitting their project, whichever is greater.

By hitting submit, you are electronically agreeing to the terms of this Participation Agreement ("Participation Agreement").

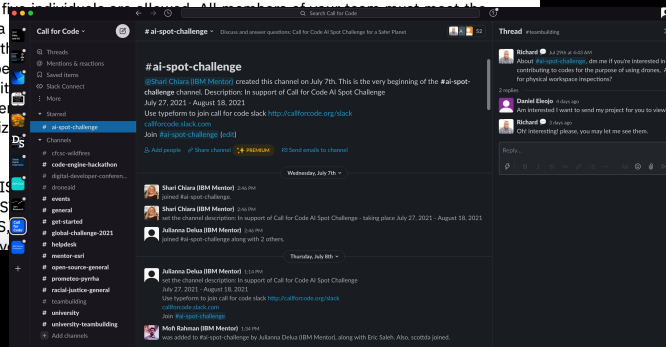
SPONSOR:

The "Call for Code AI Spot Challenge" Virtual Hackathon, to be held starting on July 27, 2021, 12:00 am PDT and ending on August 18, 2021, 11:59 pm PDT ("Event", "Contest"), is sponsored by International Business Machines Corporation ("IBM", "Sponsor", "we", "us") and David Clark Cause ("DCC", "Sponsor", "we", "us").

TEAMS:

Teams of up to 4 members are eligible. If a team member is ineligible or otherwise does not meet the eligibility criteria, the team as a whole may be responsible for its contribution, prize money, and other matters.

ELIGIBILITY: THIS CONTEST IS OPEN TO INDIVIDUALS WHOSE RESIDENCE IS IN ANY COUNTRY WHERE RESIDENTS ARE ELIGIBLE TO PARTICIPATE IN CONTESTS SPONSORED BY IBM CORPORATION OR ITS AFFILIATES. ADDITIONAL REQUIREMENTS MAY APPLY TO CERTAIN COUNTRIES. PARTICIPANTS MUST BE AT LEAST 18 YEARS OLD AT THE TIME OF ENTRY.



When you have questions:

- Read the participation agreement (part of the submission) <https://ibm.biz/submitaispot>
- Ask questions on Call for Code Slack
 - #ai-spot-challenge
- Find partners and mentors on Call for Code Slack
 - #teambuilding
 - #helpdesk
- Ask chat questions at AI Bootcamp
 - August 3 – Data
 - August 10 - Models
 - August 17 – Services / Processes – AI-powered apps
- Contact us by email
 - Upkar Lidder ulidder@us.ibm.com
 - Julianna Delua julianna@ibm.com

Participation Agreement

<https://callforcode.org/wp-content/uploads/2021/07/Spot-Challenge-Participation-Agreement-v3.pdf>



**Commit to the cause.
Push for change.
Answer the call.**

#AISpotChallenge

**Stay tuned for a winner announcement on
August 24 on YouTube**

**Step 1: Sign up for
AI Bootcamp and
attend on August
3, 10 and 17**

**Step 2: Register for
IBM Cloud account**

**Step 3: Join the
Call for Code
community**

**Step 4: Submit
your solution by
August 18**

Read the blog: ibm.biz/blogonaispot



Judging

FOUR EQUALLY WEIGHTED CRITERIA

COMPLETENESS AND TRANSFERABILITY

How fully has the idea been implemented? Can it achieve an impact in the field? Can it be transferred elsewhere?

EFFECTIVENESS AND EFFICIENCY

Does the solution address a high priority area? Does it achieve its goal effectively and efficiently? Can it scale?

DESIGN AND USABILITY

How good is the design, user experience, and ease of use of the solution? How quickly can it be used?

CREATIVITY AND INNOVATION

How unique was the approach to solving a long-standing or previously intractable problem?

2021 Submissions

SUBMISSION FORM IS AVAILABLE NOW

Even if you are not ready to submit – and that’s OK, most teams wait until the final week – it makes sense to understand what you’ll need to prepare. Open the submission form to see details on the information required and the field length limits. The deadline for **AI Spot Challenge is August 18, 2021**. Form: ibm.biz/submitaispot

EXPLORE THE PARTICIPATION AGREEMENT

This contains the complete rules, prize details, and eligibility criteria.

SUBMIT NOW, UPDATE LATER

If you think you’re ready, feel free to submit your application already. If things change, just submit again later using the same email address.

PRIZES FOR AI SPOT CHALLENGE

GRAND PRIZE: \$15,000.00 USD
RUNNER UP PRIZE: \$5,000.00 USD
2nd RUNNER UP PRIZE: \$2,500.00 USD

Call for Code

Open Source Projects

Join the Call for Code Open Source community and build and deploy solutions that help fight the most pressing issues of our time. Your entire registration journey will be three simple steps.

Step 1: Create your account or log in.

Enter your email address and create a password to get free access to IBM Cloud.

Step 2: Confirm your privacy settings (new accounts only).

You're in control of what you share with IBM and receive from us.

Step 3: Finalize your registration.

Complete the remaining fields and customize your preferences, then you're done!

By registering, you agree to the IBM Developer [Terms of Use](#).

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