EdLight

<u>**Machine Learning Intern**</u>
ASYNCHRONOUS TASK

CONTEXT

At the core of our work is our belief that teachers hold the power to move educational outcomes forward. We want technical experts who not only care deeply about solving complex problems, but also about impact. It is our responsibility to include the people impacted during model design, consider human engagement risks, and protect our students.

We are seeking an eager Machine Learning Intern in our pursuit of bringing computer vision-language-enabled solutions to education. For AI to have a role in the world we envision, the AI needs to be able to diagnose student work using optical sensors, freeing students from the constraints of the keyboard.

We're working on a 3-year work study funded by the Bill & Melinda Gates Foundation to collect a large sample of handwritten student work, hire math content experts to diagnose the work, and train an AI to replicate the expert diagnosis. We are looking to expand the capacity of our team of engineers to build models capable of making the nuanced distinction between correct and partially correct work that can handle image inputs that combine numbers, figures, and text. It's a hard problem filled with exciting opportunities to push the state of the art. The goal is to build delightful products and experiences for millions of students, teachers, and families. **Check out the following page for technical task directions!**

Describing student work is an important step towards providing actionable feedback to students. This task includes **images** and **descriptions**. (Note: The linked images are a zip file and will need to be decompressed in order to view and manipulate.)

For this challenge:

- Train and evaluate an AI model that describes the images of student work.
- Include a README with a short description of your approach, its rationale, and potential shortcomings and improvements to your solution.
- Please include your trained model in your submission.

Make sure that your name is on your action plan and share it via Google Drive with rob@edlight.com within 3 days of receiving this task.