InfernoGuard is working on further developing our wildfire risk assessment model. This model will predict where fires are most likely to start on a given plot of land. It takes various environmental factors into consideration.

**Responsibilities:**
- Develop an updated version of our current risk assessment model
- Read and implement current machine learning research papers in the application of fire detection
- Learn how to use GIS as a database
- Verify ML model with environmental researcher
- Create a backtesting framework for the ML model
- Add functionality to update ML model based on data collected from IOT devices

**Requirements:**
- Experience working on Data Science / Machine Learning Projects
- Algorithm and data structures design and analysis
- Knowledge and experience of Python3 Pandas, Numpy, and TensorFlow

**Bonus Points:**
- Experience with QGIS or other GIS software
- Knowledge of applications of optimization problems
- AWS Cloud experience
Conduct a combination of internet and literature searches to investigate environmental factors that contribute to wildfire ignition.

Research existing factors in the model and identify additional components if expanding scope is necessary.

Integrate environmental findings to hardware development and apply environmental criteria to detection algorithm.

Collaborate with Data Science & Machine Learning leads to identify key environmental factors and implementation strategies into the model.

Read, synthesize, and present environmental research findings to executive team to drive development of wildfire risk assessment model.

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Our team has developed a few iterations, and as the team has fluctuated over time, we are looking to hire new members to lead development.

Our assessment pulls environmental and topographical data from satellite imagery and data sets online, layers these factors through GIS software, and incorporates machine learning principles to drive accuracy.

Responsibilities:

- Conduct a combination of internet and literature searches to investigate environmental factors that contribute to wildfire ignition
- Research existing factors in the model and identify additional components if expanding scope is necessary
- Integrate environmental findings to hardware development and apply environmental criteria to detection algorithm
- Collaborate with Data Science & Machine Learning leads to identify key environmental factors and implementation strategies into the model
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