Weekly Progress Report

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Domain: data science and machine learning

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Week Ending: 02

I. Overview:

This week, the primary focus was on understanding data And machine learning ebook and contributing to machine learning projects. Additionally, efforts were made to leverage learning resources for skill enhancement.

II. Achievements:

1. E bookFamiliarization:

   - Explored ebook documentation to grasp core functionalities.

   - Successfully executed basic tasks, showcasing initial proficiency.

2. Machine learning Project Contributions:

Name of the project:- Industrial Manufacturing and Production

   - Contributed code to Industrial Manufacturing and Production   with a focus on Explore real industrial data and help manufacturing plants to be more efficient

   - Engaged in effective collaboration with team members.

3.Learning machine learning

   - Acquired proficiency in essential data collection, such as mining , chemicals on mining, silicon valley .

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III. Challenges:

1. E book Integration:

- Encountered challenges during ebook integration with Is it possible to predict % Silica Concentrate every minute?

How many steps (hours) ahead can we predict % Silica in Concentrate? This would help engineers to act in a predictive and optimized way, mitigating the % of iron that could have gone to tailings.

  - Ongoing efforts to troubleshoot and ensure successful integration.

IV. Learning Resources:

1. E book Documentation:

- Utilized e book official data science and machine learning form official documentation for reference and troubleshooting.

  - Attended relevant webinars and online tutorials to deepen understanding.

2. Machine Learning Resources:

  - Engaged with chat gpt to strengthen data science skills.
  - Participated in nptel iot challenge for practical application.

V. Next Week's Goals:

Introduction to probability of statistics

Probability is the study of uncertainty and chance. It deals with the likelihood of events happening. In everyday life, we encounter probabilities when we make decisions based on uncertain outcomes, like weather forecasts, gambling, or predicting the outcome of a coin toss.

Statistics, on the other hand, is the science of collecting, analyzing, interpreting, and presenting data. It helps us make sense of the information we gather and draw meaningful conclusions. Statistics are used in various fields such as economics, biology, psychology, sociology, and more.

Probability and statistics often go hand in hand. Probability theory provides the foundation for statistical methods. In statistics, we use probability to describe the uncertainty associated with our data and to make inferences about populations based on sample data.

Overall, probability and statistics play crucial roles in understanding and making decisions in the face of uncertainty in various aspects of life and academia.

"THANKING YOU"