

Assignment-1

1. What are the primary challenges in designing a machine learning system?
2. How does the trade-off between bias and variance affect learning?
3. What are the differences between overfitting and underfitting in machine learning models?
4. How can one evaluate the performance of a machine learning model?
5. What is concept learning, and why is it important in machine learning?
6. Explain the Version Space representation of hypothesis.
7. How does the Candidate Elimination algorithm work, and what are its strengths and limitations?
8. What is inductive bias, and how does it influence machine learning models?

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Note: Submit the assignment on or before 28/12/2024.