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Sampling_from_Functions_and_Testing_with_the_Kolmogorov-
Smirnov_Test_WorkShop_ABRHS.md
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| ⬆ **Mateiio** adding md | 6edd66b · now ⟲ |

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ABRHS Research Club Intro to Probabilities and Applications of Machine Learning Workshop

Workshop Title:

Probability and Applications of ML hands on workshop

Workshop Date:

June 10 2025

Welcome to the "Probability and Applications of ML hands on workshop", scheduled to take place on June 10 2025, within the Data Science track of the ABRHS Research Club.

Workshop Objective:

Hands on tutorial session focused on probabilities and their applications for Data Science

Workshop Outline:

Concepts:

1. Probabilities and Random Variables
   - Concept 1: Real Life Examples
   - Concept 2: What is a Random Variable?
   - Concept 3: Vocabulary - Stochastic vs Deterministic
   - Concept 4: PDF vs CDF
2. Normal Distributions
   - Concept 1: What is the Exponential Function?
   - Concept 2: The Normal Distribution
3. Kolmogorov–Smirnov
   - Concept 1: Understanding the Kolmogorov-Smirnov (KS) test.
   - Concept 2: Applications of KS: how do you know if your medicine works?