



AML Entry Quiz Resources

In order to familiarize yourself with the topics of the short screening test, here are some helpful external reading resources.

1. **Linear Regression** – Fitting a line to data, Using equations for lines of fit - <https://www.khanacademy.org/math/statistics-probability/describing-relationships-quantitative-data/introduction-to-trend-lines/a/linear-regression-review>
2. **Matrix transformations** – Functions & Linear transformations, Matrix multiplication, Inverse functions, Finding Inverses & determinants, transpose of a matrix - <https://www.khanacademy.org/math/linear-algebra/matrix-transformations>
3. **Probability** – Randomness, Simulation, Conditional Probability - <https://www.khanacademy.org/math/ap-statistics/probability-ap#stats-conditional-probability>
4. **The Euclidian Algorithm** – Understanding the concept - <https://www.khanacademy.org/computing/computer-science/cryptography/modarithmetic/a/the-euclidean-algorithm>
5. **Simple Hypotheses Testing** - <https://www.khanacademy.org/math/statistics-probability/significance-tests-one-sample/idea-of-significance-tests/v/simple-hypothesis-testing>
6. **Sampling Distributions** – Sampling distribution of a sample proportion, Sampling distribution of a sample mean - <https://www.khanacademy.org/math/ap-statistics/sampling-distribution-ap#sampling-distribution-mean>
7. **Regularization** – Probabilistic view, Proof for assumption - <https://towardsdatascience.com/regularization-an-important-concept-in-machine-learning-5891628907ea>