

Preparation Material:

Programming

- Kaggle learn: courses 'Intro to programming', 'Python' and 'Pandas'.
- <https://automatetheboringstuff.com/> (This is primarily for those who want to learn more about Python)

Probability and Statistics

- Probability distribution functions: <https://www.youtube.com/watch?v=YXLVjCKVP7U>
- Binomial distribution: https://www.youtube.com/watch?v=e04_wUoscBU
- Normal distribution: <https://www.youtube.com/watch?v=RKdB1d5-OE0>
- P-values and significance tests: <https://www.youtube.com/watch?v=KS6KEWaoOOE>

Mathematics

- Matrices: <https://www.youtube.com/watch?v=yRwQ7A6jVLk>
- Logarithms: <https://www.youtube.com/watch?v=kqVpPSzkTYA>
- Summation formulas: <https://www.youtube.com/watch?v=XJklaw2e1Pw>
- Finding minima and maxima: <https://www.youtube.com/watch?v=pvLj1s7SOtk>
- Derivatives <https://www.youtube.com/watch?v=N2PpRnFqnqY>
- Chain rule: <https://www.youtube.com/watch?v=0T0QrHO56qg>

And from <https://www.3blue1brown.com/topics/linear-algebra>, at least chapters 1, 2, 3, 4, 6 and 9. This concerns linear algebra and is an important foundation for many DS techniques.