# מבוא למדעי הנתונים ולמידת מכונה 30%

# חומרים של אריאל בר-יצחק

[מחברת Pandas1](https://colab.research.google.com/drive/1q06bBq0smik_l_ayMAsVRWJ_PNfoqu4q?usp=sharing) [מחברת Pandas2](https://colab.research.google.com/drive/1PR9y0RZn0l5xW1jNW5Ui0VJ3FXkFUXf6?usp=sharing) [מחברת Pandas3](https://colab.research.google.com/drive/1n4GzM4qYxo3DwJvBu_tmrw1ns8BXq-FR?usp=sharing)

[תרגילים Pandas1](https://colab.research.google.com/drive/1XC1lZBVwAP33Ch6NymOrWkw9JTjvdem9?usp=sharing) [תרגילים Pandas2](https://colab.research.google.com/drive/1Ce4uO4sBMqQBFijUj6GniGRVtjO7FR-O?usp=sharing)

[KNN Distance](https://colab.research.google.com/drive/1djpzHnfX3a9kNrv_30ncO0bT6CbpWtUS?usp=sharing)

[KNN Iris](https://colab.research.google.com/drive/1VdbAbXA5njqvnevnN4YkUfCLJWR2G_rR?usp=sharing)

[KNN overfit and underfit demo](https://colab.research.google.com/drive/1Z9fOGLz8VsYIMvgeYXSGvvRY4dVSLevK?usp=sharing)

[Diamonds Visualization](https://colab.research.google.com/drive/1tjp0OCl5dcnVz-ZGvALslJZBkD9xKgQW?usp=sharing)

[Diamonds Model Evaluation](https://colab.research.google.com/drive/1i5HXD3OLfN3fQRspV0G5LPxRyW05lReF?usp=sharing)

[Stroke Prediction balance tags using oversampling](https://colab.research.google.com/drive/1w6_rmON6hVuhHIuFL2luGQ5Otrom7_Oh?usp=drive_link)

[TED Date handling](https://colab.research.google.com/drive/1ux2T647yMwJokngvvJSIsbutsnkblJal?usp=sharing)

[MinMaxScaler vs. StandardScaler](https://colab.research.google.com/drive/1R2pR-VyDEr9Co6Jo44DCo_OYDO8CVmhs?usp=sharing)

[מחברת Diamonds](https://colab.research.google.com/drive/1y2NpusyBcHF9TWcHEP0hLjgEdGek7T-M?usp=sharing) [מחברת Titanic](https://colab.research.google.com/drive/1khif8DipnJJzZwQUL9KKK1P0d_bxQwF0?usp=sharing)

[מחברת Diamonds-Adv](https://colab.research.google.com/drive/1w1jtwnSPvFuFu-eZ6W_qvhnDqLTiBrKJ?usp=sharing) [מחברת Titanic-Adv](https://colab.research.google.com/drive/1AtZ9Ufj9PIABS0pVK_NQm2K4x7iB7VtZ?usp=sharing)

[Perceptron](https://colab.research.google.com/drive/1eJ4eVr1cdU_wblmTtXlGzKMHYM6suEwQ?usp=sharing)

[Perceptron gates](https://colab.research.google.com/drive/1URdZgQTr_luVpB-LJir-IkEWy36JzWbz?usp=sharing)

[SVM Iris](https://colab.research.google.com/drive/1AipkhrrbiUoBJS64tZSPbf1WqjpclU4u?usp=sharing)

[SVM Margins](https://colab.research.google.com/drive/1VhUkUrnb1IHwwxnm2xey6wgv027N2Iql?usp=sharing)

[Perceptron and SVM](https://colab.research.google.com/drive/1nOuo8opanRlS-YpHud6X5ihv0a1vUNaX?usp=sharing)

[Mnist with SVM](https://colab.research.google.com/drive/17ad3lfUozudnl3g1g0nJKlUxfeCfQ-p_?usp=sharing)

[Mnist with KNN](https://colab.research.google.com/drive/101ZfcIjJctCfDFSRvkqcZp9uWnNwYYeC?usp=sharing)

[Mnist with MLP](https://colab.research.google.com/drive/1DU15Tukq-0M78-mv8EdHJhQDk9YQybLm?usp=sharing)