AI and Data Science Workshop

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| **Week** | **Days** | **Topics** |
| 1 |  | * Course Description, * Why Python Programming, * How to work with Github * First Python Program in Collab |
| 1 |  | * Data Types * Input and output * Type Conversion * Arithmetic Operators |
| 1 |  | * Conditions, * Comparison Operators, * Logical Operators, * Control Flow (if-else ) * While Loops |
| 1 |  | * List and List Methods, * For Loops * The range function * Defining Functions |
| 1 |  | * Strings * Manipulating text files and directories * Reading and Writing in Text Files, * String Manipulation (subscript operator, indexing, slicing a string) |
| 1 |  | * Lists, * Tuples, * Dictionaries, * Methods (inserting, replacing, removing, searching, sorting, traversing dictionaries) |