**Machine Learning: Assignment 4**

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# Submitted to:

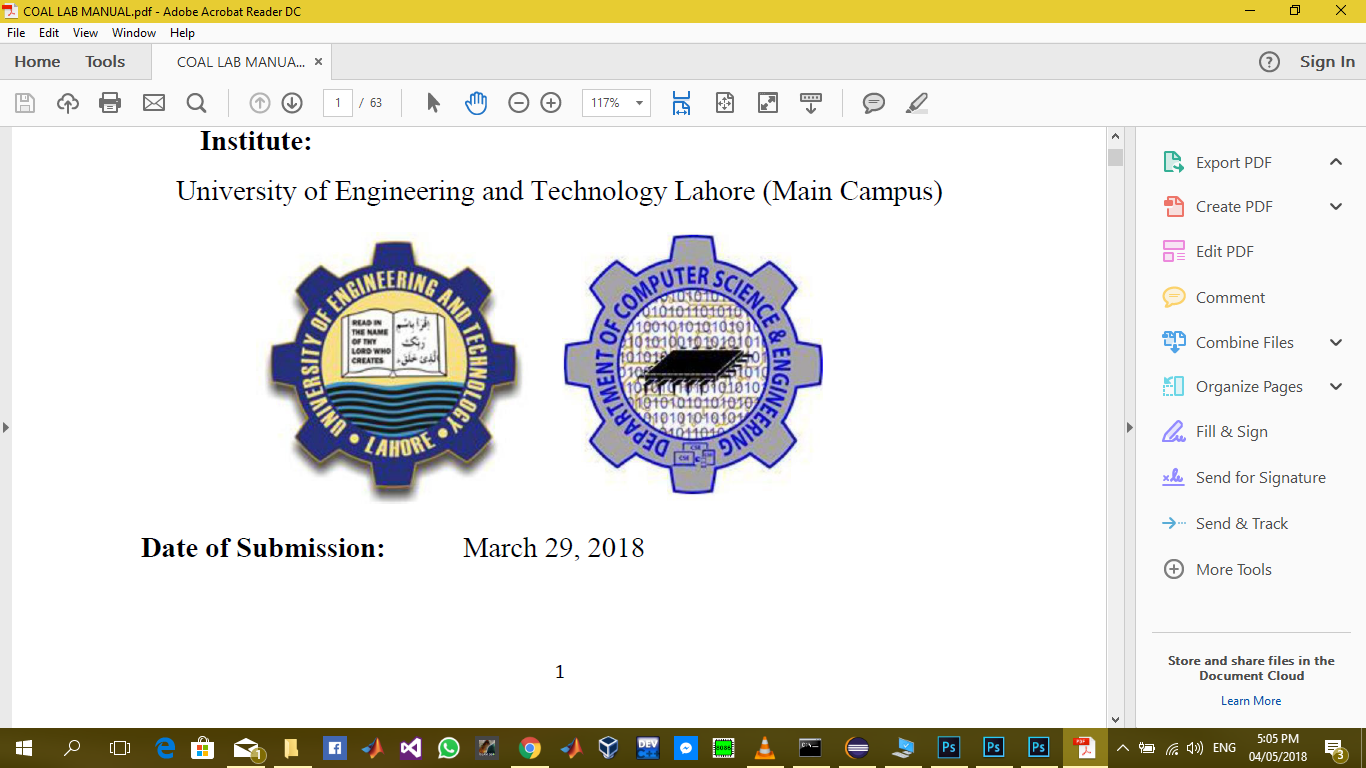
Dr. Awais Hassan

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# Submitted by:

Komal Shehzadi (2020-MSCS-590)





**Runtime of Algorithm**

**Range:** 0 to 10

|  |  |
| --- | --- |
| **DataSet Length** | **Runtime (in seconds)** |
| 10 | 0.030917644500732422 |
| 100 | 0.0797586441040039 |
| 1000 | 0.1601114273071289 |
| 10000 | 0.9626295566558838 |

**Runtime and Number of iterations**

|  |  |  |
| --- | --- | --- |
| **Range** | **Number of Iterations** | **Runtime (in seconds)** |
| 1 to 10 | 100 | 0.02892160415649414 |
| 1 to 100 | 10000 | 2.663837432861328 |
| 1 to 1000 | 1000000 | 265.3184506893158 |
| 1 to 10000 | 100000000 | 26631.837606983156 |