**Mansoura University**



**Faculty of Computers and Information**

**Department of Computer Science**

**Project Proposal**

# Arabic Title

**K-mer Counting**

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##### English Title

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**K-mer Counting**

### **Submitted by:**

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Project Abstract:

Counting the number of occurances of each k-mer in DNA strand

Project Objectives:

The bioinformation can use this program to get the number of occurances of each kemer in the DNA to use it to get a picture of the genome composition and sequencing coverage/quality

Who are the project **competitive**? and how will your project be **different**?

Our project tries to get the number of occurances of the k-mers in higher performance and accuracy than the others programs

Tools, Hardware and Software Resources:

**Tools :-**

**Python**

**Software:-**

PyCharm

**Hardware:-**

**Suitable computer (Core i7 ,8thGen)**

SCHEDULING PHASES:

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| **From** | **To** | **Activity** |
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References:

**-(UCDAVIS Bioinfornatics core)**

**https://ucdavis-bioinformatics-training.github.io/2020-Genome\_Assembly\_Workshop/kmers/kmers**

**-** **https://www.youtube.com/watch?v=7Kue7mIK9tE&ab\_channel=LorenzWeb**