**Mansoura University**



**Faculty of Computers and Information**

**Department of Computer Science**

**Project Proposal**

# Arabic Title

# اكتشاف الاخطاء و تصحيحها للبيانات المقروءة من الاجهزة المختلفة

##### English Title

**Error detection and correction for sequencing data**

### **Submitted by:**

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Project Abstract:

All the sequencing machines produce the reads included different types of errors ,so we want in our project to filter these reads from substitution errors to distinguish the errors from the true variation or the mutations , and then the bioinformaticians work with these data without sequencing machine ‘s substitution errors and to give a high accuracy in results

Project Objectives:

We seek to detect and correct substitution errors from sequencing data that is produced by sequencing machine to make these reads trusted while analyzing these results by bioinformaticians

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

We focus on filtering substitution errors on the sequencing reads to make them trusted for using by the bioinformaticians

Tools, Hardware and Software Resources:

**Tools :- python language**

**Software:- Anaconda IDE**

**Hardware:-**

SCHEDULING PHASES:

|  |  |  |
| --- | --- | --- |
| **From** | **To** | **Activity** |
| **1 week** | **--** | Collecting data |
| **2 weeks** | **--** | Design |
| **2 weeks** | **3 weeks** | Try and analysis |
| **1 week** | **10 days** | Testing |
|  |  |  |
|  |  |  |

References: