# Project proposal

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| --- | --- | --- | --- | --- |
| **Name of Candidates** | **A** | **B** | **C** | **D** |
| **PS Numbers** |  |  |  |  |
| **Name of Mentor – Delivery** | **Arangarajan P** | | **PS No 20075787** | |
| **Name of Mentor- GEA** | **YYYY** | | **PS No** | |
| **Project Period** | **From: November 2020 To: December 2020** | | | |
| **Date of Completion** |  | | | |

### **Project Title**

* AI based blood cell classification

### **Project DETAILS:**

1. **aim**:

Automated methods to detect and classify blood cell subtypes have important medical applications.

1. **Problem statement:**

* Understand the problem statement and obtain detailed requirements.
* Design AI model for the given dataset
* Train the AI model and validate
* Test and performance measurement (F1score)
* Dataset to be used: <https://www.kaggle.com/paultimothymooney/blood-cells>

1. **Objectives & Learning outcomes of the project**

* Understanding basic AI and Deep learning
* Understanding Machine learning workflow
* AI Model development
* Performance measurement

1. **Key Deliverables:**

* Requirements specifications
* AI model Design in Keras or pytorch
* Python Code
* Performance measurement (F1 score)

1. **Hardware & Software Recommendations**

* SW - 3

1. **Weekly Progress (gantt chart)**



### **REVIEW**

* Weekly reviews to be conducted over the entire tenure of Project
* Each review comprises of a progress presentation from the candidates
* Mentor may demand daily / Weekly deliverables
* behavioral Traits would be evaluated along with project deliverables

### **Final Review and Recommendation:**

* Rating and Score against each parameter

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sr.No** | **Parameter** | **Rating** | | **Score/5** |
| **1** | **Approach towards the problem** |  | |  |
| **2** | **Analytical Ability and Results discussion** |  | |  |
| **3** | **Independent Work +Team Work** |  | |  |
| **4** | **Presentation Skills** |  | |  |
| **5** | **Project Deliverables** |  | |  |
| **6** | **Quality of Project Thesis** |  | |  |
| **7** | **Communication Skills** |  | |  |
| **8** | **Attitude** |  | |  |
| **9** | **Confidence** |  | |  |
| **10** | **Innovation** |  | |  |
|  | **Total** |  | | **/50** |
|  |  |  |  | |

A= Exceeds Expectations B= Meets Expectations C=Does not meet expectations

**Recommendation:**

**Progression: Yes No**