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| Republic Polytechnic  TIPP Ai Capstone | Date: 01 Jan 2020 |
| 1. Eugin Lee 2. Koay Seng Tian | Project Proposal |

**Project Brief**

* To develop an interactive summarization tool to aid knowledge workers in their literature reviews
* To develop a web-based tool, where appropriate, for users to rapidly review the document with highlighted text and make recommendation by adding or removing the highlighted text as annotations.
* To fine tune the model upon user feedback

**Project Requirement**

* The project can be broken into 4 main tasks:
  + Develop a web-based UI for interacting with the users. The web based UI will request an input URL from user. The AI engine will process the URL and highlight the web text after performing extractive summarization. As the user review the summary, the user can feedback the accuracy of the summarization by adding or removing the summary to improve the AI model.
  + For a start, web scrapping daily new sites like CNN/Daily mail
  + Understand, develop and fine-tuned pre-trained BERT-based summarizer
  + Evaluate the performance of the pre-trained BERT-based summarizer.

**Project Milestone:**

The project is to be undertaken within 20-22 man days i.e. 1 month.

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| **Task(s)** | **Duration** | **Owner** |
| * Study/Research UI implementation technique * Study/Research BERT-based summarizer | * 6 Mar – 12 Mar | * Seng Tian * Eugin Lee |
| * Implementation of UI * Implementation BERT-summarizer | * 13 Mar – 19 Mar | * Seng Tian * Eugin Lee |
| * Testing and fine tuning | * 20 Mar – 26 Mar | * Eugin Lee & Seng Tian |
| * Model evaluation * Capstone Submission & Presentation preparation | * 27 Mar – 30 Mar * 31 Mar – 03 Apr | * Eugin Lee & Seng Tian * Eugin & Seng Tian |