



## Mermaid Code for flowchart

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graph TD
  A[Start] --> B[Import tools, libraries, functions and modules]
  B --> C[Set up cache directory]
  C --> D[Load AI model: T5]
  D --> E[Load the correct tokenizer]
  E --> F[Specify question and answer pipeline]
  F --> G[Start function to extract data from files in a separate thread]
  G --> H{For each text document in folder}
  H --> I[Extract information from text]
  I --> J[Process through T5 AI engine]
  J --> H
  H --> K[All documents processed]
  K --> L[Set up PyQt5 GUI]
  L --> M[Function to select folder]
  M --> N[Update progress bar]
  N --> O[Display results in GUI]
  O --> End([End])
  
```

Import tools,  
libraries,  
functions and  
modules



Set up cache  
directory



Load AI  
Model: T5



Load correct  
Tokenizer



Specify  
question &  
answer  
pipeline



Extract data  
from text files



Process  
through T5 AI  
engine



Set up PyQt5  
GUI [Select  
folder and  
progress bar]



Function to  
select folder



Update  
progress bar



Display results  
in GUI

