PROGRESS REPORT (PROJECT DIARY):

Name: Neilabh Banzal Project: Unscripted

DATE	PROGRESS
Before 12.04.21	Read • https://medium.com/@ageitgey/machine-learning-is-fun-80ea3ec3c471 • https://medium.com/@sanchittanwar75/introduction-to-machine-learning-and-deep-learning-bd25b792e488 • https://www.youtube.com/watch?v=aircAruvnKk Comfortable with • NumPy • Matplotlib • Pandas • Jupyter Notebooks Watched Git Session
12.04.21 - 19.04.21	Read • Hands-On Machine Learning (Ch 1-4) • Python Machine Learning, 3rd Ed. (Ch 1-4)
19.04.21 - 15.05.21	No updates due to exams and project submissions.
15.05.21 - 22.05.21	Read • Examples of Huggingface • Examples of Torch Audio For Text Summarisation Read https://pypi.org/project/bert-extractive-summarizer/ , but did not implement it. Implementation on To Do.
23.05.21 - 30.05.21	Read https://github.com/manan-paneri-99/n2p-gpt3-bot Documentation Went through the code Finalised the library I want to try out - SpeechRecognition Library https://pypi.org/project/SpeechRecognition/3.8.1/ https://github.com/Uberi/speech_recognition#readme
05.06.21 - 11.06.21	Read further on STT - • https://heartbeat.fritz.ai/a-2019-guide-for-automatic-speech-recognition-f1e1129a141c • https://realpython.com/python-speech-recognition/ • https://www.analyticsvidhya.com/blog/2021/01/introduction-to-automatic-speech-recognition-and-natural-language-processing/ • https://medium.com/georgian-impact-blog/how-to-make-an-e

	nd-to-end-automatic-speech-recognition-system-with-wav2ve c-2-0-dca6f8759920
	 Implementation Used Google Speech Web API using the SpeechRecognition Library on the preset audio file to get an estimate of WER Details - https://drive.google.com/drive/u/0/folders/1 UAroBYIWUnVw
13.06.21 - 20.06.21	 Precision and recall: https://en.wikipedia.org/wiki/Precision and recall How to evaluate STT models:
20.06.21 - 23.06.21	Survey for deciding the final project - https://docs.google.com/document/d/1HtRJGp6ldfmAEjRkhJu8C_yNOGXJv-fFzus1Got42ww/edit?usp=sharing
23.06.21 - 27.06.21	 Literature Survey for Meeting Minutes from audio files. (5 hours) Finalised flowchart (1 hour)

27.06.21 - 04.07.21	 Discussed and finalised the plan of action (2 hours) Less work due to unavailability
04.07.21 - 11.07.21	 Explored GPT-3 based abstraction models Not available for the public Applied for a research account (Total - 3 hours)
	 Tried out different Abstractive Summarisation Codes (~5) The only one that worked as desired is here. (Total - 5 hours)
	 Looked at 2 alternatives - haven't tried out yet. https://pypi.org/project/pysummarization/ https://www.thepythoncode.com/article/text-summarization-using-huggingface-transformers-python
	 Set up the Chrome Extension to record Google Meet for generating data for validation.
12.07.21 - 18.07.21	 Convert the current research into a pipeline for Converting Meet Transcripts to Summaries. (8 hours) Needed regex to remove unnecessary portions. (2 hours)