# Weekly Work Report 3/28/2025

**This Week:**

* Confirmed video labeling progress with Marina.
* Reviewed new papers on EEG signal classification.
* Met with Prof. Mutis and received feedback on the literature review.

**EEG-GPT**: Leveraging large language models, EEG-GPT provides a unified method for EEG classification, aiming to improve interpretability and performance in clinical applications.

*<https://arxiv.org/html/2401.18006v2?utm_source=chatgpt.com>*

We then convert these features to a verbal representation and then use these verbal representations both to fine-tune and evaluate the da Vinci GPT-3 base LLM from OpenAI on the resulting feature set. More specifically, we use OpenAI’s Completions API in order to fine-tune and evaluate EEG-GPT;

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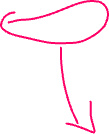
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EEGMamba: This model integrates a bidirectional state space with a mixture of experts for multi-task EEG classification, demonstrating versatility across various EEG tasks.

*https://arxiv.org/pdf/2407.20254*

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*A diagram of a structure

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**Plans for Next Week:**

• Continue writing the paper, refining the literature review.

• Analyze video labeling results to identify correlations between atomic events and signals.

• Retrain EEG models using the complete dataset.