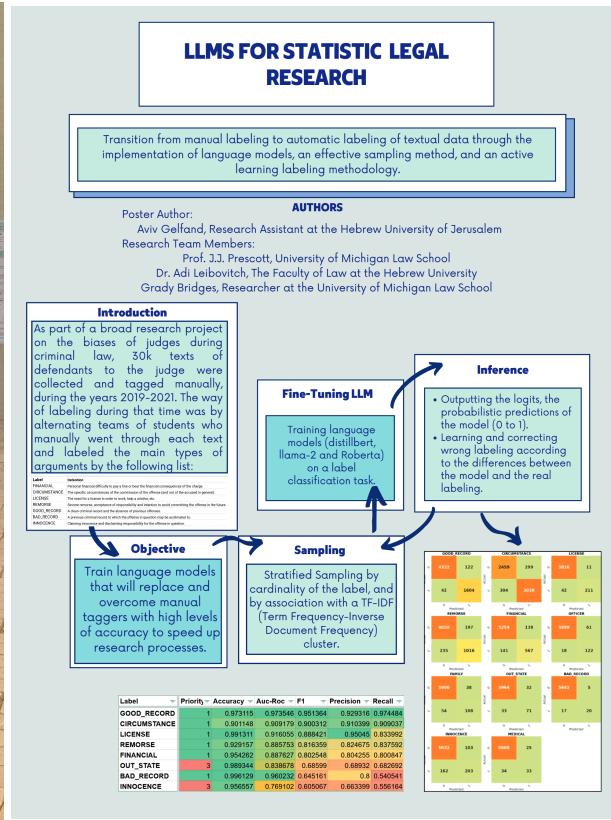
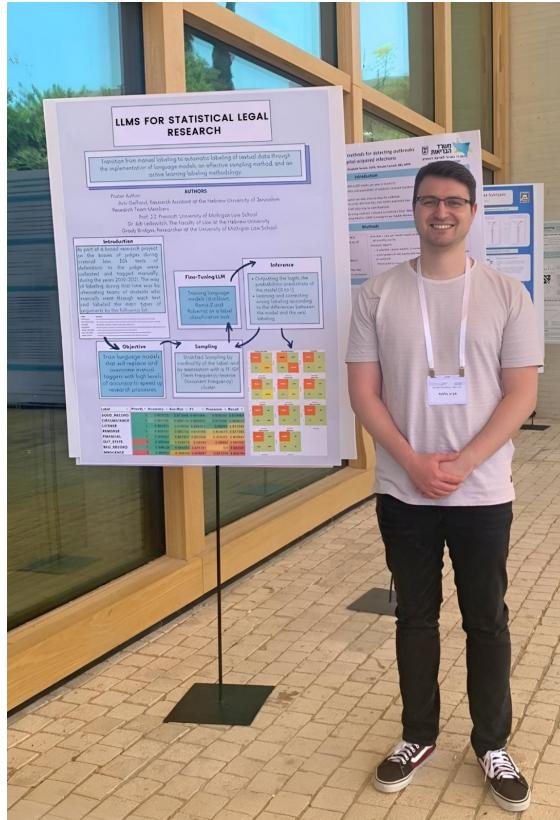


Check Out My Favorite Projects:

- **Fine-tuning Large Language Models** such as llama-2-7B, llama-2-7B-instruct, and some lighter models like RoBERTa, DistillBERT, and others for labeling texts in my role as NLP Data Scientist at HebrewU.



- **Driver Behavior Detection Using Smartphone Signals** - A Signal Detection project applying ML to identify risky driver behavior, based on academic publications and open source data-sets.

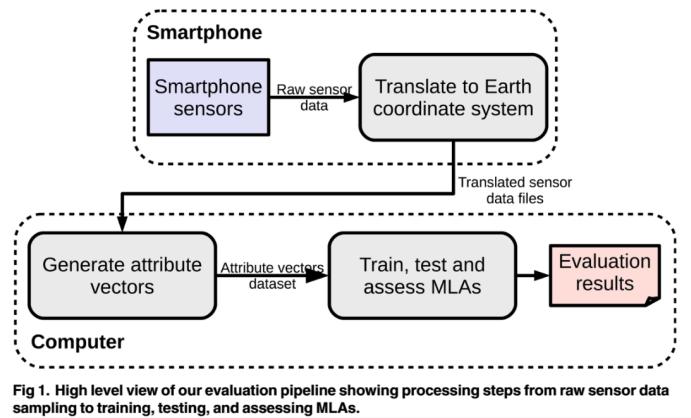
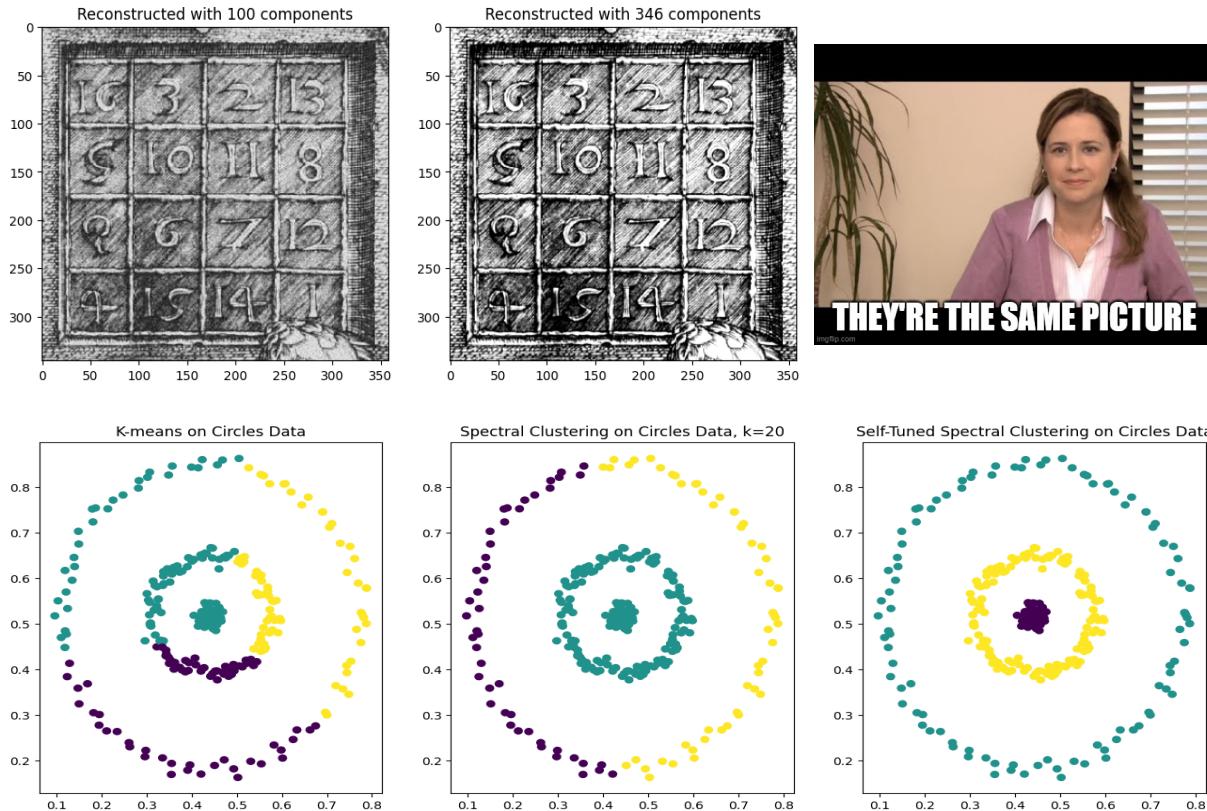


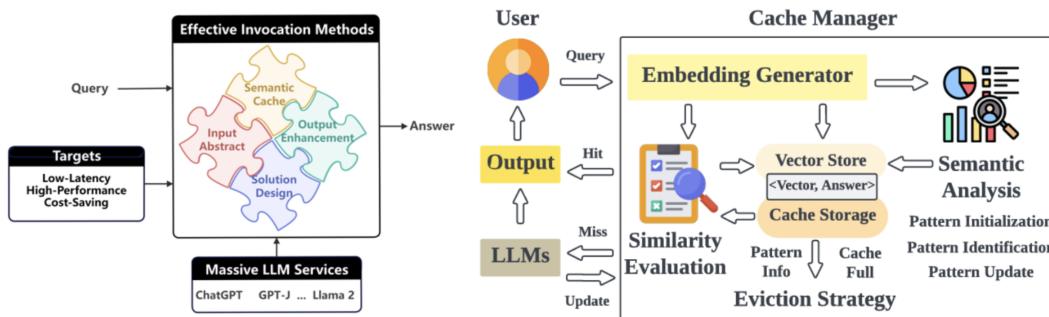
Fig 1. High level view of our evaluation pipeline showing processing steps from raw sensor data sampling to training, testing, and assessing MLAs.

<https://doi.org/10.1371/journal.pone.0174959.g001>

- **Geometry of Information Course Tasks** - covering kernel-based methods, spectral graph theory, clustering algorithms (K-means, Spectral), manifold learning, and graph signal processing.



- Semantic Caching for LLM-Based Applications - A small research project for a University course showcasing the effectiveness of caching in textual tasks involving language models.



- De Grandmizer Shtick! - A Generative AI HebrewU CS Hackathon project integrating Text-to-Text and Text-to-Speech and Computer Vision.



- Alfred👨‍💻, a Personal Assistant that **Scrapes** and **notifies on telegram** for new tasks on university moodle site. It also proved to be very useful when running scripts for a long time and wanting to get alerts and updates remotely.

Alfred MoodleBot 🎉😊

52571 Regression and Statistical Models July 2, 2023

Name: 'הנשען עבודה'

Scheduled for Tuesday, 18 July, 23:59.

Link: <https://moodle2.cs.huji.ac.il/nu22/mod/assign/view.php?id=404615&action=editsubmission>

Best👏

Master Bruce, new update:

52324 Probability for Statistics students.

Name: '4 פורום תרגיל מתוחשב'

Scheduled for Saturday, 22 July, 23:59.

Link: <https://moodle2.cs.huji.ac.il/nu22/mod/forum/view.php?id=149158>

Best👏

Master Bruce, new update:

52324 Probability for Statistics students.

Name: '4 בקורס סטטיסטיקס נילק closes'

Scheduled for Saturday, 22 July, 23:59.

Link: <https://moodle2.cs.huji.ac.il/nu22/mod/quiz/view.php?id=149159>

Best👏

idp.cc.huji.ac.il
[HUJI Login](#)
[HUJI SSO Login](#)

Master Bruce, new update:

Alfred MoodleBot April 24

FAMILY model state_dict saved 14:41

FAMILY - Test - final_threshold: 0.61 FAMILY Test metrics:
(Accuracy: 0.9849180327868853, Roc_Auc: 0.8301336027843269, F1_score: 0.7012987012987013, Precision: 0.7397260273972602, Recall: 0.6666666666666666, Support: 162, TP: 108, FP: 38, TN: 5900, FN: 54)

FAMILY - Test

Actual Values	0	1
0	5900	38
1	54	108

Actual Values Predicted Values

FAMILY model state_dict saved 14:44

FAMILY - Test - final_threshold: 0.6 FAMILY Test metrics:
(Accuracy: 0.98, Roc_Auc: 0.781252255069396, F1_score: 0.6013071895424835, Precision: 0.6344827586206897, Recall: 0.5714285714285714, Support: 161, TP: 92, FP: 53, TN: 5886, FN: 69)

FAMILY - Test

Actual Values	0	1
0	5906	52
1	52	108

Actual Values Predicted Values



- [Predicting Song Popularity](#) using various Machine Learning Regression Models.
- [A Deeper Learning of Deep Learning](#) - trying to visualize and learn about how weights are being shaped.
- A project in [Textual Statistical Analysis, Sampling, and Statistical Inference](#) .
- Final Exam in Data Analysis with R course - [Analysis and visualization of earthquake geographical data](#).