**Meeting Summary for Yousaf Abdul Khaliq's Personal Meeting Room**

Mar 16, 2025 08:00 PM Central Time (US and Canada) ID: 644 948 8621

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Quick recap

The team discussed a project focused on analyzing historical housing discrimination and its impact on modern lending patterns, exploring concepts of data bias and algorithmic bias. They reviewed available resources, divided tasks among team members, and planned the structure of their final report and presentation. The team expressed confidence in their ability to execute the project once they got the initial code running and agreed to collaborate on various aspects of the work.

Next steps

All team members to conduct initial data exploration on the provided dataset.

John to research and write the historical context and introduction section of the report.

Clay to focus on data bias analysis.

Yousaf to focus on algorithmic bias investigation.

Seth to lead the exploratory data analysis (EDA) and contribute to the discussion and limitations sections of the report.

All team members to create visualizations relevant to their assigned areas.

Yousaf to create and share a document with the team outlining the report structure and sections.

All team members to review the Python notebook provided and attempt to run the code.

Team to clarify the presentation duration (5 minutes vs 15 minutes) with Dr. Wallin.

All team members to contribute to the GitHub repository with their individual code and findings.

Team to prepare for a 5-minute lightning presentation for the upcoming Zoom call.

Summary

Algorithmic Bias in Housing Discrimination

In the meeting, Yousaf discussed the topic of algorithmic bias, specifically focusing on historical housing discrimination and its potential impact on modern lending patterns. He mentioned a data set and a Python notebook, but expressed uncertainty about how to use them. Yousaf also touched on the concept of racial covenants, legal clauses in property deeds that prohibited the sale or occupancy by non-white people, which were banned in 1968 but may still have effects seen in data today. The project overview revealed that the project is a mixture of examining the relationship between housing discrimination and modern lending patterns, with two distinct biases to discuss: data bias and algorithmic bias. Yousaf also mentioned a previous project where they had to find data bias in a loan dataset. The conversation ended with Yousaf expressing a need to understand the project components and the initial analysis.

Data Bias and Algorithmic Fairness

The team discussed the concepts of data bias and algorithmic bias in the context of their project. They clarified that data bias refers to inherent disparities in the data set, while algorithmic bias occurs when a computer program makes unfair or inaccurate decisions due to the way it was designed or the data it was trained on. They agreed that addressing data bias is crucial to eliminating algorithmic bias. The team also discussed the importance of understanding these concepts to ensure fairness and accuracy in their project.

Analyzing Historical Data Challenges

The team discussed the challenges of analyzing historical data, particularly from 100 years ago, and the need for clarity in understanding the problem. They agreed to move forward with the document to better understand the problem and approach. They also discussed the structure of the final report, which will resemble a research paper, and the presentation time, which they hope is 5 minutes. The team plans to contribute to the final report and presentation.

Project Resource Allocation and Presentation Requirements

Yousaf and John discuss the technical resources available for their project, including a Python notebook that John found complex. They review the project steps, focusing on initial data exploration, task division, and primary analysis. The group considers assigning each member one of four main parts: historical context research, data bias analysis, algorithmic bias investigation, and visualization development. They also note the requirements for the final report and presentation, which should include historical context, methodology, key findings, visualizations, and recommendations. The team is unsure about the presentation duration, as they've seen conflicting information about a 5-minute and a 15-minute presentation.

Dividing Tasks for Presentation Report

The team discussed a presentation and its content, with John expressing that it was more work than initially anticipated. Seth asked about next steps, and Clay suggested focusing on code analysis and algorithmic bias investigation. Yousaf proposed dividing tasks among team members, with each taking responsibility for a specific section of the final report. The team agreed to start dividing up the report sections and will share a document for clarity.

Task Division and Presentation Planning

In the meeting, the team discussed the division of tasks for their project. Yousaf suggested that Seth could handle the data bias analysis, while John would take on the algorithmic bias investigation. Yousaf also proposed that Seth would be responsible for the visualization development, although everyone would likely contribute to it. The team agreed that there would be some overlap in tasks, but they would all contribute to the final report. They also discussed the presentation, with John suggesting that they could all handle it as long as they were on the same page about what needed to be said. The team expressed confidence in their ability to execute the project once they got the initial code running.

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