# AI Road Report

Week 1 | From 2/13/2026 - 2/20/2026

**Leader**: Dennis Keithly

*Tasks may change during meetings

| | |
|---|---|
| **Dennis Keithly**<br><br>**Time Spent 5 Hours** | Tasks completed:<br>● Redid the project proposal schedule<br>● Looked into TxDOT data sheets, consolidated data files inside of general resources files<br>● Began looking into API to be called inside the project (weather api, google maps api)<br>● Gathered resources inside the General Resources / Documents file<br>● Reviewed team resources gathered<br><br>Planned tasks for next week*:<br>● Query data to begin training AI<br>● Finalize AI tools<br>● Develop boilerplate for front and backend<br><br>Any issues or challenges:<br>● Potential costs blocking API<br>● Late start this week given unforeseen circumstances and exam prep |
| **Ben Stidham**<br><br>**Time Spent 5 hours** | Tasks completed:<br>● Looked into TxDOT data sheets and found new sources of data that can be queried<br>● Discovered new API resources to be called during the project<br>● Gathered resources inside the General Resources / Documents file<br>● Reviewed resources gathered by the team<br><br>Planned tasks for next week*:<br>● Query data to being training AI<br>● Develop Scraper for data if needed<br>● Develop boilerplate for frontend and backend<br><br>Any issues or challenges:<br>● |
| **Kade O'Bar**<br><br>**Time Spent 4 hours** | Tasks completed:<br>● Worked on creating a first draft of what AI output would look like<br>● Calculated a rough AI output template<br>● Reviewed resources gathered by team<br>● Full details inside the Kade Weekly Report File<br><br>Planned tasks for next week*: |

| | |
|---|---|
| | ● Define specific architecture and spec for frontend and backend<br>● Develop boilerplate for front and backend<br>● Being implementing API calls<br><br>Any issues or challenges:<br>● |
| **Jose Rodas**<br><br>**Time Spent**<br>**4 hours** | Tasks completed:<br>● Looked into resources for data from TxDOT<br>● Determined the validity of TxDOT data<br>● Looked into the usage of Google Maps geocoding versus Roads API<br>● Research how to get around API billing<br>● More info inside the Kose_Rodas_Weekly_Report file<br><br>Planned tasks for next week*:<br>● Define specific architecture and spec for frontend and backend<br>● Develop boilerplate for front and backend<br>● Develop schema for postgress database<br><br>Any issues or challenges:<br>● API costs may put blockers on development on the AI nad giving the AI data to process to obtain an output<br>● Some data is not aligned to itself in the large spreadsheets provided by TxDOT and so new data may need to be found<br>● Defining risks for segments of the roads may not be possible without locating new sources of data |
| **Christopher Chaiban**<br><br>**Time Spent**<br>**1 hour** | Tasks completed:<br>● Reviewed the resources gathered by the team<br>● Looked into new AI tools<br><br>Planned tasks for next week*:<br>● Define specific architecture and spec for frontend and backend<br>● Develop boilerplate for front and backend<br>● Begin working on the Figma design for the project<br>● Validate AI tools<br><br>Any issues or challenges:<br>● |

**Total Time Spent**: 20 hours on the project as a team

**Summary**:

<u>Completed tasks</u>

A slow start resulted in the team work being delayed until about Wednesday when the project proposal schedule was redone. The new schedule turned each phase into a sprint with the team

leader at the time creating weekly tasks. As a result of the delay, the team was not able to put in the needed 10 hours per teammate. Progress will advance in week 2 after a meeting scheduled for 2/21/2026.

This week was about looking into datasets and tools. Different sources of data and tools were located, price points and limits of the data and tools were explored and documented which will aid in the development of architecture and specs of the system. Different teammates looked into different technologies and shared the documentation inside of the group to prepare for an in person meeting to finalize tools and sources of data.

A general template to define the AI output has been developed. This provides a first draft at locating what type of data will be needed to train that AI and a first look at how the different risks will be weighted.

A first look into AI tools to aid in the development of tasks have also been identified. While a test can be established or more research can be done to determine the best AI tool has yet to be completed, this gives the team a better point to start from.

## Road Blocks/Challanges

During group research the main issue identified is the possible need to pay for API endpoints. This will make gathering information about the real world more difficult or impossible. New tools may need to be found in order to get around this problem

Ensuring that our data is set up in a way to train the AI may also be an issue. While the data located may be sufficient, turning it into usable data may prove to be difficult

## Next Tasks

For the upcoming week, the general goal is to create a rough dataset to train the AI, create and define the architecture and resources to be used to create the boilerplate, start the Figma, and begin work on the database. The way that this will split up will be determined during the meeting of 2/21/2026 and more details will be in the meeting minutes.