

Road Report AI

Week 2 | From 2/21 - To 2/27

Leader: Dennis Keithly

Kade O'Bar Time Spent 10 hours	<p>Tasks completed:</p> <ul style="list-style-type: none">• Figma Design• API and Data Research <p>Planned tasks for next week:</p> <ul style="list-style-type: none">• Wiring the UI• Adding functionality <p>Any issues or challenges:</p> <ul style="list-style-type: none">• Learning how figma works mostly while designing the web pages
Ben Stidham Time Spent 10 hours	<p>Tasks completed:</p> <ul style="list-style-type: none">• Front end boilerplate/framework• Mass crash data querying• Automated weather scraping• Maps API research <p>Planned tasks for next week:</p> <ul style="list-style-type: none">• Begin UI design implementation• Further model specification and creation• Initial map display development (some will depend on back end) <p>Any issues or challenges:</p> <ul style="list-style-type: none">• Pricing on maps api prevented initial scraping/querying
Jose Rodas Time Spent 10 Hours	<p>Tasks completed:</p> <ul style="list-style-type: none">• Interface Prototype <p>Planned tasks for next week:</p> <ul style="list-style-type: none">• Help in backend/frontend implementation <p>Any issues or challenges:</p> <ul style="list-style-type: none">• Deciding what should be included, making sure it is sensible from the user's point of view
DennisKeithly Time Spent 12-13 Hours	<p>Tasks completed:</p> <ul style="list-style-type: none">• Team leader file documentation and file preparation• General AI research to determine data structure and understand ML terminology• C.R.I.S. Column Research and Comparison to useable API• Creation of rough dataset that can potentially be used in a model

	<p>Planned tasks for next week:</p> <ul style="list-style-type: none"> • Finishing the negative sampling files <ul style="list-style-type: none"> ◦ Creating accurate/reasonable weather conditions at the time slice the weather is in ◦ Automating the process of creating a trainable dataset ◦ Maybe cutting down on file size or abstracting data a bit more • Begin building model • Validate the data inside of the training csv file is can be accessed by APIs to be accessed <p>Any issues or challenges:</p> <ul style="list-style-type: none"> • File size/scope of the data is ballooning to become giant. 50,000 row file can turn into millions of rows of data • Potentially inaccurate negative sampling
<p>Christopher Chaiban</p> <p>Time Spent 10 Hours</p>	<p>Tasks completed:</p> <ul style="list-style-type: none"> • Backend Boilerplate (WIP) w/ Cursor • Initial SSoT • Research on FAST API <p>Planned tasks for next week:</p> <ul style="list-style-type: none"> • Update the SSoT and the backend accordingly • Further research on FAST API and PostgreSQL <p>Any issues or challenges:</p> <ul style="list-style-type: none"> • First time using FAST API and creating a backend at this scale.

Total Time Spent: 52 Hours

Summary:

This week was about preparing for the actual coding phase. Dennis, Christopher, and Ben worked on making sure that there was a framework for the AI to be trained on. This included making sure that there is a source of data, a way to generate training data, and an API that can access real world data to feed into the AI. While perfect data to train the AI on is not completed yet, the general state of research allows for the basis of the model to be trained on in Phase 2 while data is procured.

Meanwhile, Kade and Jose began preparing the front end. Between designing and prototyping the UI elements and assisting in API research, this will keep expedite creating a readable format of the data once the model is trained. Ben also ensured that a frontend boiler plate existed so that work can immediately begin on the frontend now that Phase 2 is beginning.

Overall, the framework is finishing and making way for Phase 2. Phase 2 involves making a basic version of the frontend and backend. This necessitates a UI to complete and a basic model to be trained, even if unsuccessfully. The API functions to fetch weather and geolocation

need to continue to be researched as pricing is likely going to still be an issue, but are not immediately relevant yet, instead coming into relevancy around phase 3 and 4.

This week will see the switch off in team lead from Dennis to Kade and so the person in charge of documentation will be switching. As is the same with last week, final decisions and assignments about who will be working on what tasks will be decided shortly after the meeting and will be in a collection of meeting minutes on 2/27/2026.