**Motivation**
- Reduce water use on large scale
- Combat climate change
- 80% of human water use in California is dedicated to agriculture

**Solution**
- Track usage in agricultural sector
- Visualize water usage throughout a time period
- Compare water usage between similar fields
- Can be extended to track water use in other sectors

**Innovation**
- One of first applications built using this satellite dataset
- Resource conservation districts can be more proactive vs reactive

**User Interface**
- Green/Red coloring based on water anomaly detection algorithm
- Search a farm by location and apply filter options
- View water usage for any farm over a period of time
- Compare against the average water usage of similar farms

**Technologies**
- Google Maps API
- Heroku
- Firebase
- React
- PostgreSQL
- Docker
- QGIS
- Flask

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**SpaceMonitor**
Agricultural Data Comparison and Visualization
Anna Ivannikova · Bryan Wu · Daniel Shu · Meredith Xu · Richard Rodriguez

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