ROADMITRA

AI based road survey solution, the future of infrastructure management.

The AI-based Road Survey is a powerful tool for road maintenance and infrastructure planning. It provides accurate, real-time data that enables road maintenance teams to prioritize and plan their work more efficiently. Try our platform today and experience the power of Artificial Intelligence in road analysis.

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Website : www.roadmitra.ai

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Welcome to the AI-based Road Survey! Our platform uses cutting-edge Artificial Intelligence technology to provide accurate and efficient road condition analysis. Our AI algorithms analyze road images and provide data that is crucial for road maintenance and infrastructure planning.

Manual road assessments are tedious, Time consuming and inefficient.

1. Tedious Process: Manual Road assessments involve physically walking along roads to inspect and document road conditions, which can be a tedious and repetitive task.
2. Time Consuming: The process of manual assessments can take a significant amount of time, as roads often span many miles and require multiple people to complete.
3. Inefficient Data Collection: Manual assessments rely on paper forms, which can be lost or damaged, leading to inaccurate data and the need to repeat assessments.
4. Human Error: Manual assessments are prone to human error, such as missed or inaccurately recorded road conditions.
5. Limited Coverage: Manual assessments are limited by the number of personnel available, which can lead to incomplete data coverage, particularly in rural areas.
6. Slow Results: Results from manual assessments can take days or weeks to collate, analyze and present, making it difficult to prioritize and plan road maintenance activities in a timely manner.

Potholes, road signs /asset identification with image & location data.

1. Potholes Detection: Potholes can be easily detected using AI algorithms that analyze road images and provide accurate data on their location and size.
2. Road Sign and Asset Identification: AI algorithms can also identify and classify road signs and assets such as traffic lights and guardrails, providing valuable location and condition data.
3. Improved Location Data: AI algorithms can accurately geolocate assets and potholes, providing an exact location for maintenance crews to address.
4. Streamlined Data Collection: Image and location data can be collected quickly and efficiently, reducing the need for manual data collection and reducing the risk of human error.
5. Improved Maintenance Planning: With accurate and up-to-date information on the location and condition of road signs and assets, maintenance crews can prioritize their work and plan more effectively.
6. Cost Savings: Automating the process of pothole detection and asset identification can save time and resources, reducing maintenance costs and freeing up personnel for other tasks.
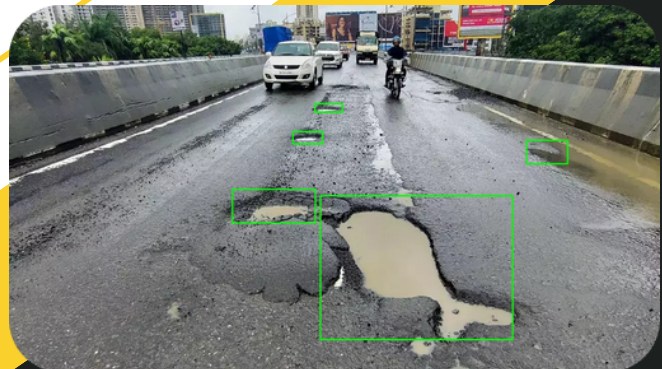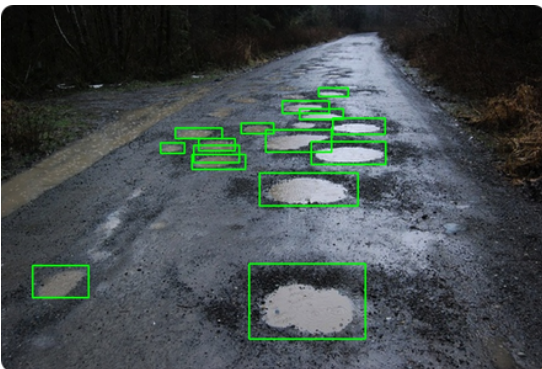
Map based GUI to visualize the data.

1. Visual Representation: Map-based graphical user interface (GUI) provides a visual representation of road data, making it easy to see the location and condition of assets and potholes.
2. Improved Understanding: A visual representation of data can help decision-makers understand road conditions more effectively, allowing for better maintenance planning and prioritization.
3. Real-time Data: The GUI provides real-time data, allowing maintenance teams to quickly see the latest information and respond to changing conditions.
4. Easy Navigation: The GUI is intuitive and easy to use, with interactive maps and filters that allow users to quickly find the information they need.
5. Customizable Views: The GUI can be customized to meet the specific needs of different users, with customizable views and data layers.
6. Integration with Other Systems: The GUI can be integrated with other systems, such as GIS and asset management systems, to provide a comprehensive view of road data.

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Web based dashboard to visualize and analyze the data.

1. Accessible Data: The web-based dashboard provides access to road data from anywhere with an internet connection, allowing maintenance teams to view and analyze data from the field.
2. Data Visualization: The dashboard uses charts, graphs, and other visualizations to help users quickly understand road conditions and identify trends and patterns.
3. Real-time Data: The dashboard provides real-time data, allowing maintenance teams to see the latest information and respond to changing conditions.
4. Customizable Dashboards: The dashboard can be customized to meet the specific needs of different users, with customizable views and data layers.
5. Data Filtering: The dashboard allows users to filter data by location, date, asset type, and other parameters, making it easier to find the information they need.
6. Integration with Other Systems: The dashboard can be integrated with other systems, such as GIS and asset management systems, to provide a comprehensive view of road data.
7. Data Management: The dashboard provides a centralized location for managing road data, making it easier for maintenance teams to collaborate and make informed decisions.

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