

AUTOSAGE USING GEMINI FLASH TECHNOLOGY

TEAM NAME: BOT BATTLE

TEAM MEMBERS

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ABSTRACT

AutoSage, powered by Gemini Flash, is an AI vehicle expert tool offering detailed specs, comparisons, and insights on two-wheelers and four-wheelers, simplifying the buying process.

THE PROBLEM

Overwhelming Choices

Lack of Reliable Information

Inefficient Comparison Decision-Making

SOLUTION-AUTOSAGE

- ✓ AI-Powered Vehicle Insights
- ✓ Smart Recommendations
- ✓ Easy Comparisons
- ✓ Real-Time Updates
- ✓ User-Friendly Interface

FEATURES

- Detailed Specs – In-depth two & four-wheeler details
- Side-by-Side Comparisons – Compare performance, price & features
- Smart Search & Filters – Find vehicles by brand, budget & fuel type
- Pros & Cons Analysis – AI-driven strengths & weaknesses
- Real-Time Prices – Latest market updates & availability

TECHNOLOGIES

- AI Model: Gemini Flash
- Backend: Python
- Frontend: Streamlit

FEASIBILITY

Technical Feasibility: Uses already existing technologies like Google Gemini AI for real-time vehicle data retrieval and user-friendly interaction.

Market Feasibility: High demand for AI-driven vehicle comparisons and recommendations among buyers.

Operational Feasibility: User-friendly interface with seamless navigation, ensuring a smooth experience for both novice and expert users.

Financial Feasibility: Monetization possible through ads, partnerships, and premium subscription models.

FUTURE IMPROVEMENTS

- ✓ Enhanced AI Recommendations
- ✓ Expanded Vehicle Database
- ✓ Mobile App Development
- ✓ User Reviews & Community

OUTPUT:

Deploy :

 AutoSage Navigation

Go to

- Home
- Explore
- Compare
- Regular maintenance tips
- Rental Services
- AutoSage Bot

[Reset Application](#)

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 Welcome to AutoSage!

Your AI-Powered Vehicle Comparison & Exploration Tool

Use AutoSage to explore vehicles, compare them, and find the best one suited for you.

 Note: This app uses the Google Generative AI API which has rate limits. If you encounter '429 Resource Exhausted' errors, the app will automatically fall back to pre-generated data.

 AutoSage - AI-Powered Vehicle Analysis | Built with ❤️ using Streamlit & Google Gemini AI

Show desktop

AutoSage Navigation

Go to:

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Explore Vehicles

Select Vehicle Type:

- 2-Wheeler
- 4-Wheeler

Minimum Price (\$): 20000

Select Brand:

BMW

Maximum Price (\$): 100000

Select Fuel Type:

- Electric
- Non-Electric

Search Vehicles

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Search Vehicles

Top 10 Non-Electric 4-Wheelers

	Name	Price	Range	Fuel	Horsepower
0	BMW 2 Series Coupe	From \$38,200	N/A	Non-Electric	255-382 hp depending on trim
1	BMW 3 Series Sedan	From \$43,800	N/A	Non-Electric	255-382 hp depending on trim
2	BMW 4 Series Coupe	From \$48,000	N/A	Non-Electric	255-382 hp depending on trim
3	BMW 4 Series Gran Coupe	From \$46,700	N/A	Non-Electric	255-382 hp depending on trim
4	BMW 4 Series Convertible	From \$54,000	N/A	Non-Electric	255-382 hp depending on trim
5	BMW X1	From \$39,100	N/A	Non-Electric	241 hp
6	BMW X2	From \$40,600	N/A	Non-Electric	228-302 hp depending on trim
7	BMW X3	From \$46,900	N/A	Non-Electric	248-382 hp depending on trim
8	BMW X4	From \$52,800	N/A	Non-Electric	248-382 hp depending on trim
9	BMW Z4 Roadster	From \$52,800	N/A	Non-Electric	255-382 hp depending on trim

Select a vehicle for detailed information:

BMW 2 Series Coupe

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Detailed Specifications for BMW 2 Series Coupe

Range: N/A

Horsepower: 255

Price: \$38200

Features

- Sport seats
- Moonroof
- Rear-wheel drive
- Automatic High Beams
- Lane Departure Warning
- Frontal Collision Warning

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Deploy ⋮

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Compare Vehicles

Compare two vehicles side by side.

Enter first vehicle name
tesla model 3

Enter second vehicle name
ford mustang

[Compare Now](#)

◆ Comparison: tesla model 3 vs ford mustang

The Tesla Model 3 and Ford Mustang are vastly different cars aimed at different buyers, despite both being broadly in the "performance" category. Comparing them requires understanding these fundamental differences:

- **Tesla Model 3:** A fully electric compact executive sedan/fastback. Focuses on technology, efficiency, and modern design.

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Summary Table:

Feature	Tesla Model 3	Ford Mustang
Powertrain	Electric Motor(s)	Gasoline Engine (4-cylinder, V8)
Performance	Quick acceleration, agile handling	Strong acceleration, sporty handling
Fuel Efficiency	Excellent (100+ MPGe)	Moderate to Poor (depending on engine)
Features	Tech-focused, minimalist, Autopilot	Traditional/modern mix, varying features
Price	Varies by trim, generally higher	Generally lower than Model 3
Style	Modern, sleek sedan/fastback	Classic muscle car coupe/convertible

Conclusion:

Choosing between these cars depends heavily on your priorities. If you prioritize efficiency, technology, and a modern driving experience, the Model 3 is a strong contender. If you value a more traditional driving experience with a powerful gasoline engine, sporty handling, and classic styling, the Mustang might be a better fit. The Mustang offers a lower entry price point, but higher performance trims can approach the cost of a Model 3.

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- **Model 3:** As an electric vehicle, the Model 3 uses no gasoline. Its efficiency is measured in MPGe (miles per gallon equivalent). Depending on the trim and driving conditions, it typically achieves over 100 MPGe. "Fueling" consists of charging at home or public charging stations.
- **Mustang:** Fuel economy varies significantly depending on the engine. The four-cylinder offers better mileage, but even then, it's far less efficient than the Model 3. V8 models are notably thirsty, especially under spirited driving.

Features:

- **Model 3:** Known for its minimalist interior, large touchscreen interface, and advanced technology features like Autopilot (driver-assistance system), over-the-air updates, and various connectivity options. Emphasis is on a modern, tech-forward experience.
- **Mustang:** Offers a more traditional interior with physical controls and gauges. Features vary depending on the trim, but generally include modern infotainment systems, driver-assistance technologies (though generally not as advanced as Tesla's), and available premium sound systems. Some trims retain a more classic muscle car feel, while others offer more luxurious appointments.

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Routine Maintenance Checklist

Follow these steps to ensure your vehicle stays in top condition:

- Check and change engine oil regularly
- Inspect and replace air filters
- Keep tires properly inflated and aligned
- Check brake pads and fluid levels
- Inspect battery health and clean terminals
- Top up coolant, brake, and transmission fluids
- Check and replace windshield wipers
- Regularly wash and wax the car to prevent rust

Troubleshooting Common Vehicle Issues

Select a common issue:

- Car won't start

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Solution: Inspect brake pads for wear or replace brake fluid.

Preventive Maintenance Tips

- Follow the manufacturer's service schedule: Regular servicing can prevent major breakdowns.
- Monitor dashboard warning lights: Address issues early to avoid costly repairs.
- Drive smoothly: Avoid aggressive driving to reduce wear and tear.
- Keep your fuel tank at least half full: Prevents fuel pump damage.
- Store your car in a garage: Protects it from extreme weather conditions.

Recommended Service Frequency

	value
Oil & Filter Change	Every 5,000 - 10,000 km
Brake Inspection	Every 10,000 - 20,000 km
Tire Rotation & Alignment	Every 10,000 - 15,000 km
Battery Check	Every 6 months
Coolant Flush	Every 40,000 km

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Troubleshooting Common Vehicle Issues

Select a common issue:

- Car won't start
- Brakes making noise
- Engine overheating
- Tires losing pressure frequently
- AC not cooling properly
 - Keep your fuel tank at least half full: Prevents fuel pump damage.
 - Store your car in a garage: Protects it from extreme weather conditions.

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DRIVE SMOOTHLY: Avoid aggressive driving to reduce wear and tear.

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Battery Check	Every 6 months
Coolant Flush	Every 40,000 km

Stay proactive with maintenance to extend your vehicle's lifespan!

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🚗 Car Rental Selection & Maintenance Cost Estimator

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Vehicle Comparison Tool

🔍 Select Car Type

How many seats do you need?

4-seater

4-seater

5-seater

7-seater

SUV

Luxury

💡 Estimated Annual Maintenance Cost for a 4-seater: \$5000

⚠️ Choose wisely! Lower maintenance costs can save you money in the long run.

Deploy

🚗 Car Rental Selection & Maintenance Cost Estimator

🚗 AutoSage Navigation

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Vehicle Comparison Tool

🔍 Select Car Type

How many seats do you need?

5-seater

🚙 Available 5-seater Cars

Honda Civic (2022) - 🎧 \$45 per day

Mazda 3 (2023) - 🎧 \$50 per day

🛠️ Estimated Maintenance Cost

💡 Estimated Annual Maintenance Cost for a 5-seater: \$7000

⚠️ Choose wisely! Lower maintenance costs can save you money in the long run.

The screenshot shows the AutoSage Chatbot interface. At the top, there's a navigation bar with icons for running, stop, and deploy, followed by a "RUNNING..." status indicator. On the left, a sidebar titled "AutoSage Navigation" lists links: Home, Explore, Compare, Regular maintenance tips, Rental Services, and AutoSage Bot (which is currently selected). Below this are buttons for "Reset Application" and copyright information: "© 2025 AutoSage - AI-Powered Vehicle Comparison Tool". The main area is titled "AutoSage Chatbot" with a subtitle "Ask anything about vehicles!". A message box contains the text "electric vehicles" with a red send icon. A blue circular progress bar with the text "Thinking..." is visible. At the bottom is a search bar with the placeholder "Type your question..." and a red send arrow icon.

This screenshot shows the AutoSage Chatbot interface with a detailed response about electric vehicles. The top navigation bar includes a "Deploy" button and a three-dot menu. The sidebar and application details are identical to the first screenshot. The main content area starts with a "AutoSage Navigation" section and a "Go to" list. To the right, a yellow info icon leads to a detailed explanation of electric vehicles (EVs), mentioning they are powered by electricity and offer a cleaner alternative to ICE vehicles. It also provides a breakdown of key aspects of EVs. Below this, a "Types of EVs:" section lists five categories with corresponding icons: Battery Electric Vehicles (BEVs), Plug-in Hybrid Electric Vehicles (PHEVs), Hybrid Electric Vehicles (HEVs), Fuel Cell Electric Vehicles (FCEVs), and another unnamed category. At the bottom is a search bar with the placeholder "Type your question..." and a red send arrow icon.

THANKYOU