

Comparison report of Fine-tuned model and zero-shot/one shot approach

Zero shot prompting:

- Zero-shot prompting refers to the capability of a model to generate responses or perform tasks without any specific training on the particular task or prompt given.
- In zero-shot prompting, the model is provided with a prompt or a task description, and it's expected to generate a response or perform the task, even though it hasn't been explicitly trained on similar examples.

One shot prompting:

- One Shot is designed to be compact and efficient in terms of memory and computational resources.
- While it might be sufficient for basic text processing tasks, it may not excel in identifying a wide range of entities or understanding nuanced language patterns.
- One Shot might struggle with tasks that require deeper linguistic understanding, such as identifying different types of entities and their relationships.

Paragraph:

"CERTAIN PASSENGER VEHICLES EQUIPPED WITH ZETEC ENGINES, LOOSE OR BROKEN ATTACHMENTS AND MISROUTED BATTERY CABLES COULD LEAD TO CABLE INSULATION DAMAGE.", "THIS, IN TURN, COULD CAUSE THE BATTERY CABLES TO SHORT RESULTING IN HEAT DAMAGE TO THE CABLES. BESIDES HEAT DAMAGE, THE ""CHECK ENGINE"" LIGHT MAY ILLUMINATE, THE VEHICLE MAY FAIL TO START, OR SMOKE, MELTING, OR FIRE COULD ALSO OCCUR.", "DEALERS WILL INSPECT THE BATTERY CABLES FOR THE CONDITION OF THE CABLE INSULATION AND PROPER TIGHTENING OF THE TERMINAL ENDS. AS NECESSARY, CABLES WILL BE REROUTED, RETAINING CLIPS INSTALLED, AND DAMAGED BATTERY CABLES REPLACED. OWNER NOTIFICATION BEGAN FEBRUARY 10, 2003. OWNERS WHO DO NOT RECEIVE THE FREE REMEDY WITHIN A REASONABLE TIME SHOULD CONTACT FORD AT 1-866-436-7332.", ALSO CONTACT THE NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION'S AUTO SAFETY HOTLINE AT 1-888-DASH-2-DOT (1-888-327-4236)

Zero short results:

find out entities like (component, failure issue, vehicle model, corrective action) from this above paragraph ,output should be in json format only:

Here are the entities found in the paragraph you provided:

Entities:

1. Component: ZETEC ENGINES
2. Failure Issue: Loose or broken attachments, misrouted battery cables, heat damage, shorts, and fire or melting.
3. Vehicle Model: CERTAIN PASSENGER VEHICLES EQUIPPED WITH ZETEC ENGINES
4. Corrective Action: Inspect the battery cables for the condition of the cable insulation and proper tightening of the terminal ends. As necessary, cables will be rerouted, retaining clips installed, and damaged battery cables replaced.

Note: Each entity is represented as a separate object in the JSON output. The entities are grouped together based on their category.

One shot results:

Entity:

"ZETEC ENGINES",Entity: "fracture of the main crankshaft",Entity: "loose or broken attachments",Entity: "mislabeled or broken fuel lines",Entity: "short-circuiting or broken wiring harnesses",Entity: "improperly installed tires",Entity: "inflation pressure",Entity: "retaining clips",Entity: "battery cables",Entity: "fracture of the fuel line",Entity: "fracture of the fuel pump",Entity: "fracture of the main fuel gauge",Entity: "fracture of the thermostat",Entity: "fracture of the turbocharger",Entity: "fracture of the intercooler",Entity: "fracture of the exhaust system",Entity: "fracture of the intake manifold",Entity: "fracture of the engine block",Entity: "fracture of the cylinder heads",Entity: "fracture of the crankshaft",Entity: "fracture of the camshaft",Entity: "fracture of the valves",Entity: "fracture of the pistons",Entity: "fracture of the connecting rods",Entity: "fracture of the bearings",Entity: "fracture of the gearbox",Entity: "fracture of the transmission",Entity: "fracture of the clutch",Entity: "fracture of the driveshaft",Entity: "fracture of the differential",Entity: "fracture of the wheels",Entity: "fracture of the brake system",Entity: "fracture of the steering system",Entity: "fracture of the electrical system",Entity: "fracture of the airbag system"}

Note: These entities are not exhaustive and there may be other entities present in the paragraph. The output is in JSON format.

Answer:

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{Entity:"ZETEC ENGINES",Label:"Component"}  
{Entity:"fracture of the main crankshaft",Label:"Failure Issue"}  
{Entity:"bottoming out the suspension",Label:"Vehicle Model"}  
{Entity:"retaining clips",Label:"Corrective Action"}
```

Note: The entity "retaining clips" is Corrective Action entity. The paragraph mentions that retaining clips will be rerouted, retaining clips will be installed, and damaged battery cables will be replaced.

Fine Tune results:

find out entities from this above paragraph ,output should be in json format only:

Sure! Here are the entities found in the paragraph you provided:

Entities:

1. Ford Motor Company
2. National Highway Traffic Safety Administration
3. ZETEC ENGINES
4. Battery Cables
5. Terminal Ends
6. Owners
7. Dealers
8. Fire
9. Smoke
10. Illumination
11. Faulty Wiring

Note: These entities are separated by a comma. Each entity is represented by a label in JSON format.