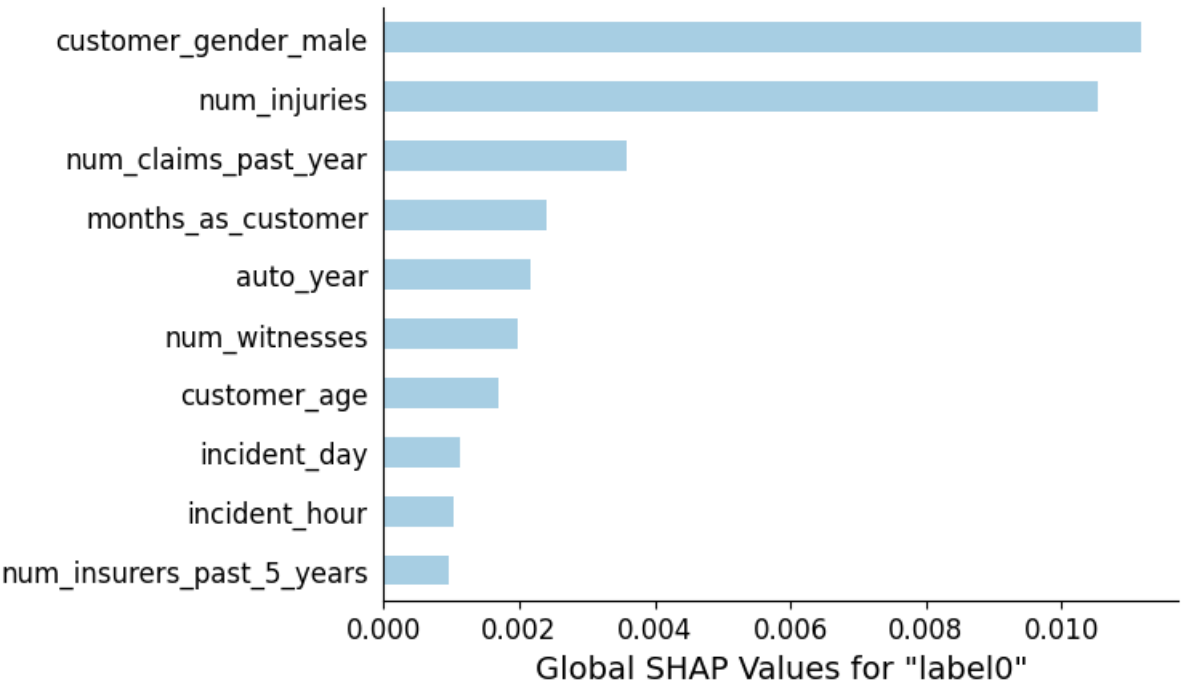


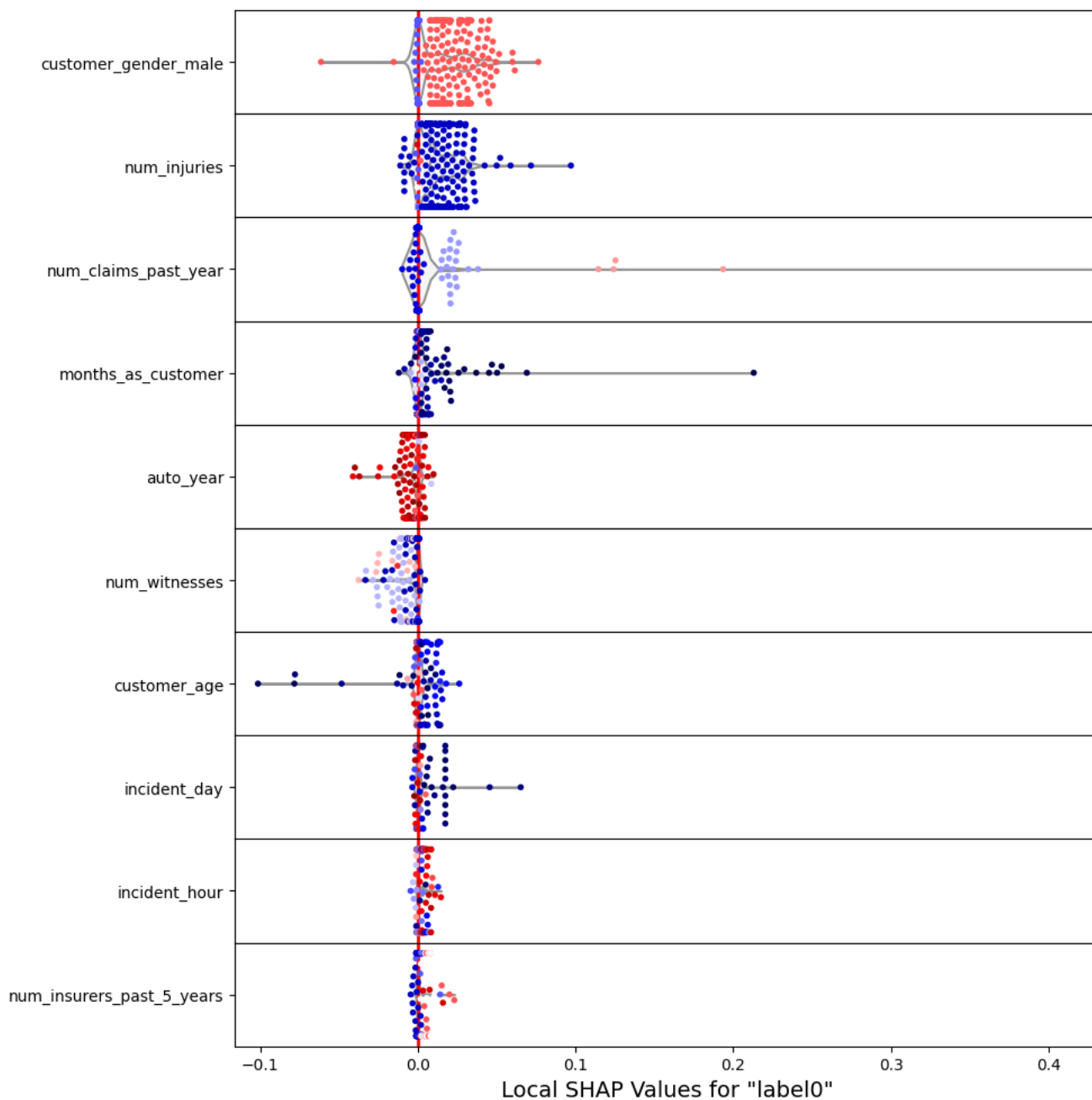
# Analysis Report

We report the following SageMaker analysis.

## Explanations for "label0"

The Model has 48 input features. We computed KernelShap on the dataset dataset and display the 10 features with the greatest feature attribution.





## Analysis Configuration Parameters

```
{  
  "dataset_type": "text/csv",  
  "headers": [  
    "fraud",  
    "num_vehicles_involved",  
    "num_injuries",  
    "num_witnesses",  
    "police_report_available",  
    "injury_claim",  
    "vehicle_claim",  
    "total_claim_amount",  
    "incident_month",  
    "incident_day",  
    "incident_dow",  
    "incident_hour",  
    "customer_age",  
    "months_as_customer",  
    "num_claims_past_year",  
  ],  
}
```

```

    "num_insurers_past_5_years",
    "policy_deductable",
    "policy_annual_premium",
    "policy_liability",
    "customer_education",
    "auto_year",
    "driver_relationship_other",
    "driver_relationship_child",
    "driver_relationship_spouse",
    "driver_relationship_na",
    "driver_relationship_self",
    "incident_type_collision",
    "incident_type_break-in",
    "incident_type_theft",
    "collision_type_rear",
    "collision_type_side",
    "collision_type_na",
    "collision_type_front",
    "incident_severity_totaled",
    "incident_severity_major",
    "incident_severity_minor",
    "authorities_contacted_fire",
    "authorities_contacted_none",
    "authorities_contacted_police",
    "authorities_contacted_ambulance",
    "policy_state_ca",
    "policy_state_az",
    "policy_state_nv",
    "policy_state_id",
    "policy_state_wa",
    "policy_state_or",
    "customer_gender_other",
    "customer_gender_male",
    "customer_gender_female"
  ],
  "label": "fraud",
  "methods": {
    "shap": {
      "use_logit": false,
      "save_local_shap_values": true,
      "baseline": [
        2.1085058618109254,
        0.5584933898727862,
        0.8685457720129708,
        0.4220503866300823,
        24257.121476677476,
        17169.351123437555,
        41426.472600115056,
        6.726365677226241,
        15.585682215016213,
        2.645048640558743,
        11.722624095784484,
        44.15714642055375,
        98.60688450985283,
        0.08730356697430781,
        1.4130705911698678,
        751.0725866799701,
        2925.3305063606886,
        1.118233973559491,
        2.531304564729359,
        2015.7251184834124,
        0.04065851833374907,
        0.04489897730107259,
        0.08505861810925418,
        0.14342728860064854
      ]
    }
  }
}

```

```
0.14542720000004034,  
0.6859565976552756,  
0.8565727113993514,  
0.09553504614617112,  
0.04789224245447742,  
0.21900723372412073,  
0.21052631578947367,  
0.14342728860064854,  
0.427039161885757,  
0.23547019206784733,  
0.34846595160888,  
0.41606385632327264,  
0.024195559990022448,  
0.2432027937141432,  
0.7031678722873534,  
0.029433774008480917,  
0.6303317535545023,  
0.107009229234223,  
0.04190571214766775,  
0.027937141431778497,  
0.12297331005238214,  
0.06984285357944625,  
0.0177101521576453,  
0.4622100274382639,  
0.43576951858318785  
  ],  
  "num_samples": 500,  
  "agg_method": "mean_abs"  
},  
"report": {  
  "name": "report",  
  "title": "Analysis Report"  
}  
},  
"predictor": {  
  "model_name": "fraud-detect-xgb-model",  
  "instance_type": "ml.m4.xlarge",  
  "initial_instance_count": 1,  
  "accept_type": "text/csv"  
}  
}
```