compensation data;

determining a first regression model based on the initial historical transportation service transaction data and initial historical vehicle accident compensation data;

identifying updated historical transportation service transaction data and updated historical vehicle accident compensation data from the historical transportation service transaction data and the historical vehicle accident compensation data; and

modifying the first regression model based on the updated historical transportation service transaction data and the updated historical vehicle accident compensation data to determine a second regression model.

19. The method of claim 18, further comprising:

determining whether a matching condition is satisfied based on at least one of first regression model or the second regression model; and

in response to determining that the matching condition is satisfied, determining the second regression model as the estimation model.

20. The method of claim 11, wherein the estimation model comprises a Logistic regression model.

21. A non-transitory computer-readable medium including executable instructions that, when executed by at least one processor, cause the medium to effectuate a method comprising:

obtaining historical transportation service transaction data associated with an identification of a target driver;

extracting at least one target feature based on the historical transportation

service transaction data;

obtaining an estimation model for estimating a safety score that reflects a safety expectation of a driver during transportation services;

determining a safety score associated with the target driver based on the estimation model and the at least one target feature; and

providing an offer to enter a contract to the target driver based on the safety score.