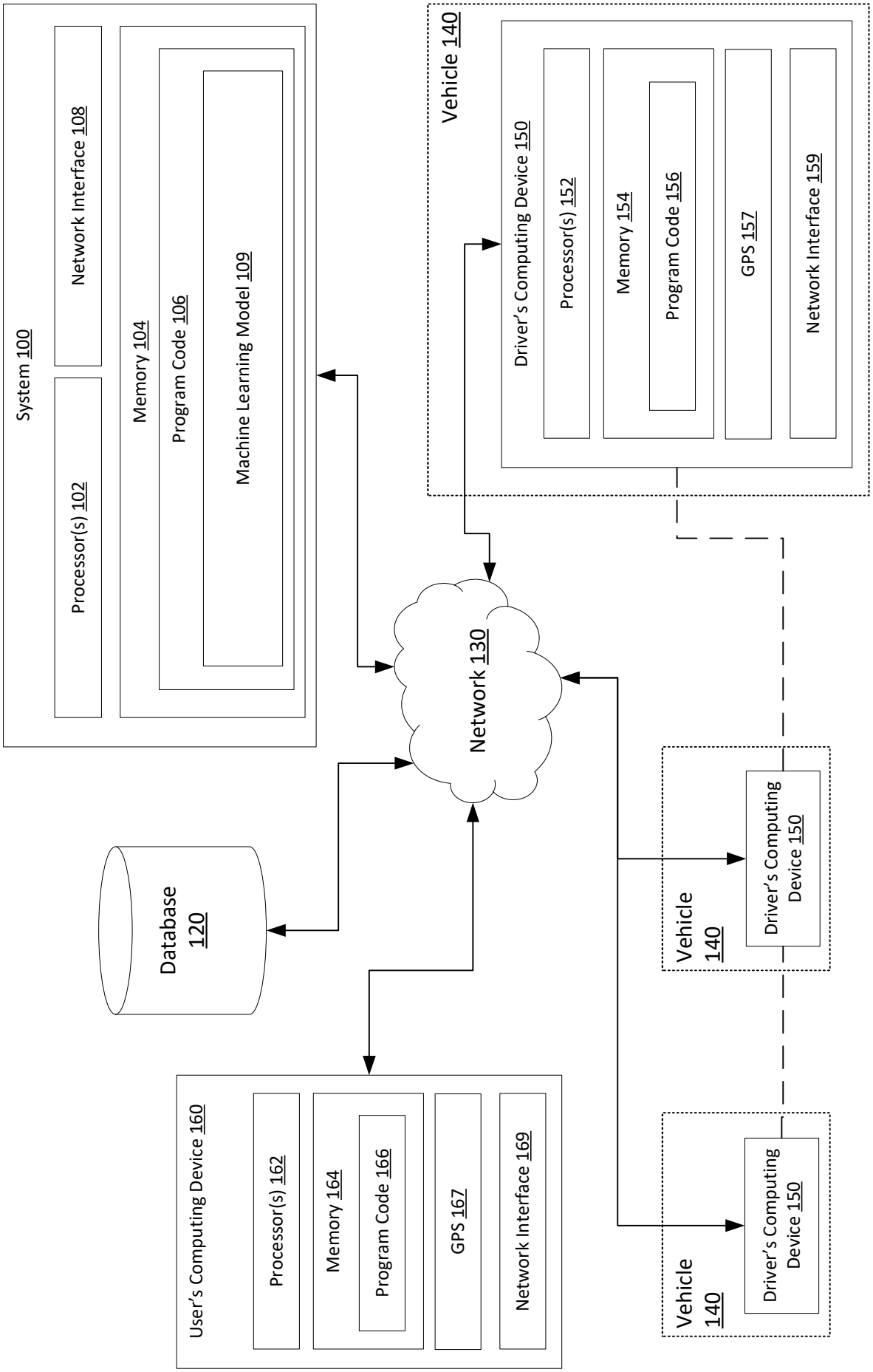

System 100
Processor(s) 102
Network Interface 108
Memory 104
Program Code 106
Machine Learning Model 109
Vehicle 140
Driver's Computing Device 150
Processor(s) 152
Memory 154
Program Code 156
GPS 157
Network Interface 159
Network 130
Database 120
Vehicle 140
Driver's Computing Device 150
Vehicle 140
Driver's Computing Device 150
User's Computing Device 160
Processor(s) 162
Memory 164
Program Code 166
GPS 167
Network Interface 169

Figure 1

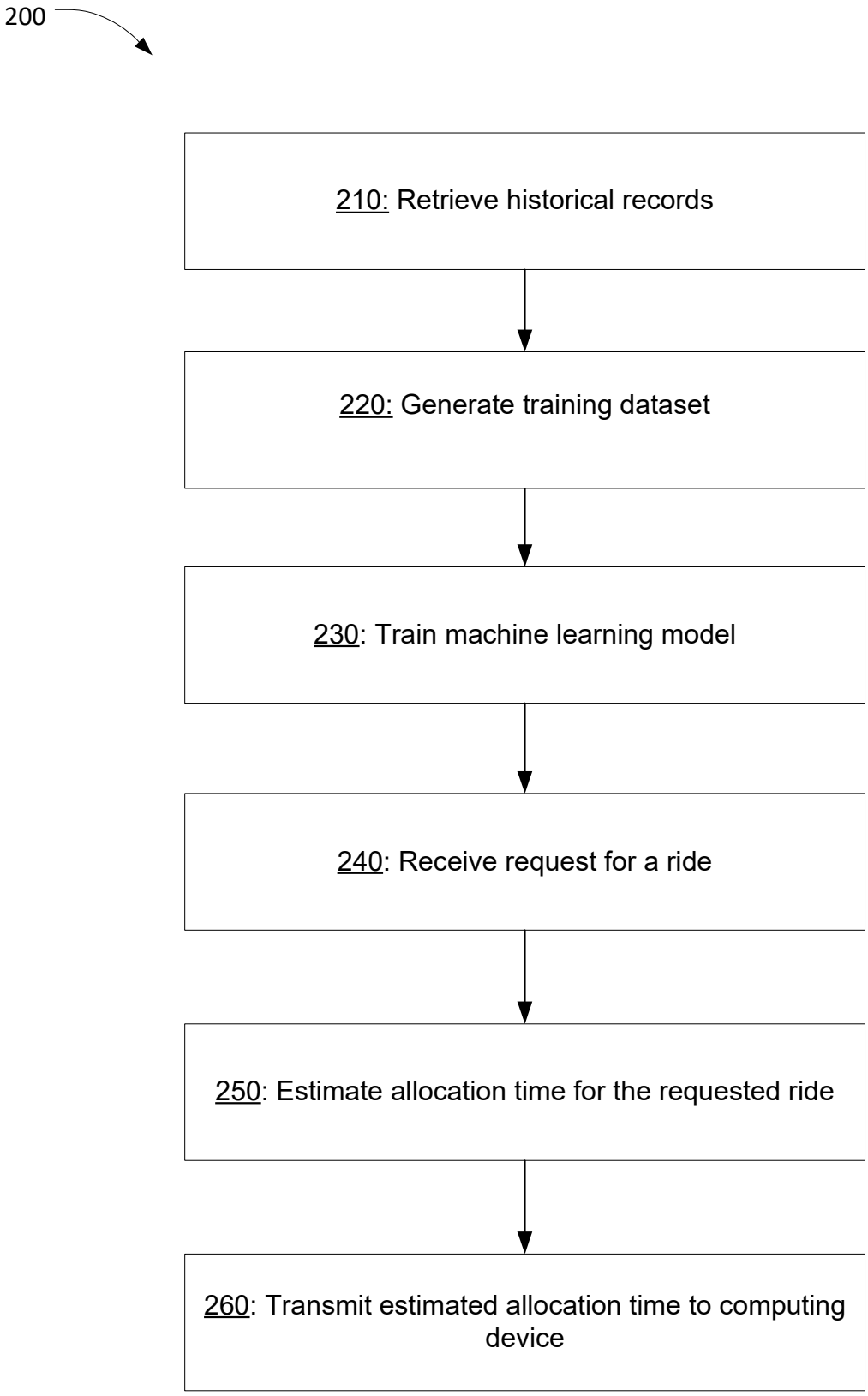

200
210: Retrieve historical records
220: Generate training dataset
230: Train machine learning model
240: Receive request for a ride
250: Estimate allocation time for the requested ride
260: Transmit estimated allocation time to computing device

Figure 2