**1. country**

* **Description**: Indicates the country of origin for the user session.
* **Possible Values**:
  + Name of the country (e.g., united states, canada).
* **Associated Predictor**: None directly.
* **Reasons for Value**: Based on IP geolocation.
* **Impact on Risk Score**: Depends on configured country filter rules.

**2. geoVelocityLevel**

* **Description**: Evaluates the velocity of travel between the current and previous login locations.
* **Possible Values**:
  + LOW: Normal travel pattern.
  + MEDIUM: Unusual travel pattern but plausible.
  + HIGH: Improbable or impossible travel.
* **Associated Predictor**: GeoVelocity Anomaly.
* **Reasons for Value**:
  + **MEDIUM**: User is traveling to a new but plausible location.
  + **HIGH**: Impossible travel detected.
* **Impact on Risk Score**:
  + LOW: No risk.
  + MEDIUM: Moderate risk.
  + HIGH: Significant risk increase.

**3. userLocationAnomalyLevel**

* **Description**: Detects anomalies in the user's location compared to historical patterns.
* **Possible Values**:
  + LOW: Known or familiar location.
  + MEDIUM: New but plausible location.
  + HIGH: Unusual location.
* **Associated Predictor**: User Location Anomaly.
* **Reasons for Value**:
  + **MEDIUM**: Location within a plausible range but not common for the user.
  + **HIGH**: Completely new or unexpected location.
* **Impact on Risk Score**:
  + LOW: No impact.
  + MEDIUM: Slight increase.
  + HIGH: Significant increase.

**4. anonymousNetworkDetected**

* **Description**: Indicates if the network being used is anonymous (e.g., VPN, TOR).
* **Possible Values**:
  + true: Anonymous network detected.
  + false: No anonymous network detected.
* **Associated Predictor**: Anonymous Network Detection.
* **Reasons for Value**:
  + **true**: User is using a known anonymous proxy or VPN.
* **Impact on Risk Score**:
  + true: Increases risk score.

**5. ipVelocityByUserLevel**

* **Description**: Evaluates the velocity of distinct users sharing the same IP.
* **Possible Values**:
  + LOW: Normal velocity.
  + MEDIUM: Unusual velocity.
  + HIGH: Abnormal velocity.
* **Associated Predictor**: IP Velocity.
* **Reasons for Value**:
  + **MEDIUM**: More users than expected are sharing the IP.
  + **HIGH**: Extremely high velocity suggests automation or fraud.
* **Impact on Risk Score**:
  + LOW: No impact.
  + MEDIUM: Slight increase.
  + HIGH: Major risk increase.

**6. ipRiskLevel**

* **Description**: Represents the reputation risk of the IP address.
* **Possible Values**:
  + LOW: No known risk.
  + MEDIUM: Slightly suspicious.
  + HIGH: Known for malicious activity.
* **Associated Predictor**: IP Reputation.
* **Reasons for Value**:
  + **MEDIUM**: Minor suspicious activity.
  + **HIGH**: Blacklisted IP or known malicious behavior.
* **Impact on Risk Score**:
  + LOW: No risk.
  + MEDIUM: Slight increase.
  + HIGH: Major increase.

**7. ipVelocityByUserDistinctCount**

* **Description**: The number of distinct users sharing the same IP in the evaluation period.
* **Possible Values**: Integer (e.g., 1, 6).
* **Associated Predictor**: User Velocity.
* **Reasons for Value**:
  + High values indicate shared or public IPs.
* **Impact on Risk Score**: High distinct counts can increase risk.

**8. impossibleTravel**

* **Description**: Indicates if travel between sessions is physically impossible.
* **Possible Values**:
  + true: Impossible travel detected.
  + false: No impossible travel.
* **Associated Predictor**: GeoVelocity Anomaly.
* **Reasons for Value**:
  + **true**: Login locations are geographically impossible within the time frame.
* **Impact on Risk Score**: true significantly increases risk.

**9. previousSuccessfulTransactionIp**

* **Description**: IP address of the user's last successful transaction.
* **Possible Values**: IP address (e.g., 129.250.199.90).
* **Associated Predictor**: User Location Anomaly.
* **Reasons for Value**: Based on historical IP data.
* **Impact on Risk Score**: Used for comparing IP-based anomalies.

**10. newDeviceReason**

* **Description**: Indicates the reason for identifying a device as new.
* **Possible Values**:
  + "This device has not been used recently": Device is recognized but not recently used.
  + "Unknown Device": Device is not recognized.
* **Associated Predictor**: New Device.
* **Reasons for Value**:
  + New or unrecognized device triggers this field.
* **Impact on Risk Score**: Increases risk for unrecognized devices.

**11. userVelocityByIpLevel**

* **Description**: Velocity of IP activity based on user patterns.
* **Possible Values**:
  + LOW: Normal velocity.
  + MEDIUM: Slightly elevated velocity.
  + HIGH: Abnormal velocity.
* **Associated Predictor**: User Velocity.
* **Reasons for Value**:
  + High velocity could indicate automated activity or fraud.
* **Impact on Risk Score**:
  + LOW: No impact.
  + MEDIUM: Slight increase.
  + HIGH: Major increase.

**12. ipAddressReputationReason**

* **Description**: Provides the reason for the IP risk level.
* **Possible Values**:
  + "IP usage consistent with non-human user": Indicates possible bot activity.
  + "IP appears on a list of known proxies": Proxy use detected.
* **Associated Predictor**: IP Reputation.
* **Reasons for Value**:
  + Based on known malicious or suspicious activity linked to the IP.
* **Impact on Risk Score**: Contributes to IP-based risk.

**13. ipVelocityByUserThresholdSource**

* **Description**: Source used to calculate IP velocity thresholds.
* **Possible Values**:
  + "CALCULATED": Dynamically computed.
  + "DEFAULT\_FALLBACK": Default thresholds applied.
* **Associated Predictor**: User Velocity.
* **Reasons for Value**: Indicates how thresholds were determined.
* **Impact on Risk Score**: Affects velocity-based risk evaluation.

**14. userBasedRiskBehaviorLevel**

* **Description**: Evaluates the user's behavioral patterns for anomalies.
* **Possible Values**:
  + LOW: Normal behavior.
  + MEDIUM: Minor deviations.
  + HIGH: Significant anomalies.
* **Associated Predictor**: User-Based Risk Behavior.
* **Reasons for Value**:
  + **MEDIUM**: Slight irregularities.
  + **HIGH**: Major deviations from normal patterns.
* **Impact on Risk Score**:
  + LOW: No impact.
  + MEDIUM: Moderate increase.
  + HIGH: Significant increase.

**15. userVelocityByIpDistinctCount**

* **Description**: Number of distinct IPs used by a user in the evaluation period.
* **Possible Values**: Integer (e.g., 1, 6).
* **Associated Predictor**: User Velocity.
* **Reasons for Value**: High values suggest mobility or shared devices.
* **Impact on Risk Score**: High distinct counts can increase risk.

**16. userVelocityByIpDuring**

* **Description**: Time duration (in seconds) over which IP velocity was calculated.
* **Possible Values**: Integer (e.g., 3600).
* **Associated Predictor**: User Velocity.
* **Reasons for Value**: Based on time intervals used for analysis.
* **Impact on Risk Score**: Not directly impactful but part of velocity calculation.

**17. newDeviceLevel**

* **Description**: Indicates risk level for a new device.
* **Possible Values**:
  + LOW: Known device.
  + MEDIUM: Recently seen or partially recognized.
  + HIGH: Fully unrecognized device.
* **Associated Predictor**: New Device.
* **Reasons for Value**:
  + New or partially recognized devices trigger higher levels.
* **Impact on Risk Score**:
  + LOW: No impact.
  + MEDIUM: Slight increase.
  + HIGH: Major increase.

**18. ipVelocityByUserMediumThreshold**

* **Description**: Threshold for classifying velocity as MEDIUM.
* **Possible Values**: Float (e.g., 12.0).
* **Associated Predictor**: User Velocity.
* **Reasons for Value**: Indicates the threshold at which velocity moves from LOW to MEDIUM.
* **Impact on Risk Score**: Determines scoring thresholds.