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(71) Applicant: **GIANT OAK, INC.** [US/US]; 1515 N. Courthouse Road, Suite 1120, Arlington, Virginia 22201 (US).

(72) Inventors: **PANDYA, Harsh**; 1515 N. Courthouse Road, Suite 1120, Arlington, Virginia 22201 (US). **SHAPIRO, Jacob**; 1515 N. Courthouse Road, Suite 1120, Arlington, Virginia 22201 (US). **SHIFFMAN, Gary**; 1515 N. Courthouse Road, Suite 1120, Arlington, Virginia 22201 (US).

(74) Agent: **CHOWDHURY, Ryan** et al.; Fish & Richardson P.C., P.O. Box 1022, Minneapolis, Minnesota 55440-1022 (US).

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(54) Title: ADAPTIVE TRANSACTION PROCESSING SYSTEM

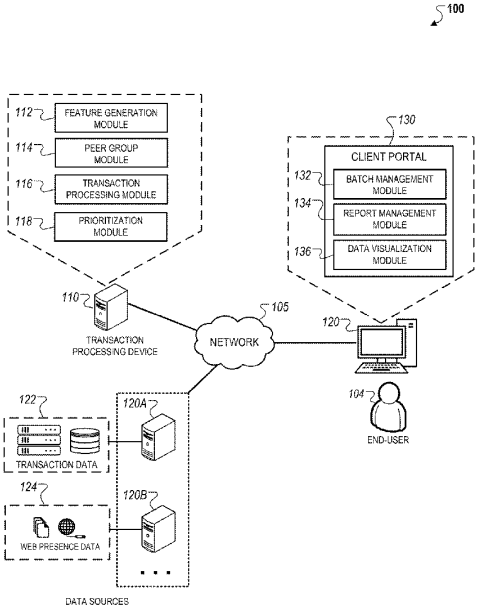


FIG. 1A

(57) Abstract: Systems and techniques are described for applying machine learning techniques to dynamically identify potentially anomalous activity of entities. In some implementations, peer group data is obtained. The peer group data indicates multiple entities classified as belonging to a particular peer group, and a set of attributes associated with the multiple entities. Transaction data for the multiple entities is obtained from one or more data sources. One or more transaction models are selected. The transaction models that are each trained to apply a particular set of evidence factors corresponding to the set of attributes associated with the multiple entities, and identify transaction patterns representing potentially anomalous activity. The transaction data is processed using the one or more transaction models to identify potentially anomalous activity within the transaction data for the multiple entities. A prioritization indicator is computed for each entity included in the multiple entities.

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