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USING A MODULAR ARCHITECTURE FEATURING LAYERED DATA MODELS IN NON-SERIAL ARRANGEMENTS WITH
GATED NEURAL NETWORKS

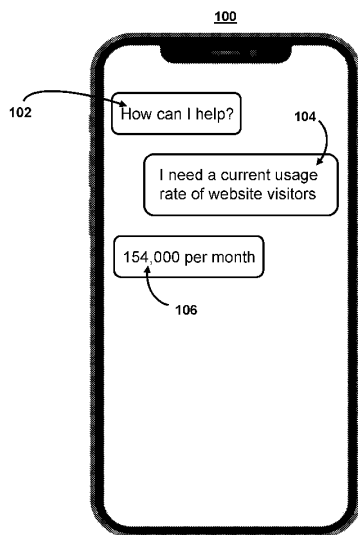


FIG. 1

(57) Abstract: Systems and methods for providing an artificial intelligence-based solution in a dynamic environment that requires models with varying degrees of nuance and specialization. One such dynamic environment relates to generating dynamic human-like conversational responses based on complex data. In particular, systems and methods recite generating dynamic human-like conversational responses using a modular architecture featuring layered data models with gated neural networks. The modular architecture compartmentalizes the various components and functions of an application. That is, the architecture may support multiple layers, each featuring models performing specific functions and/or having been trained on using specific data and/or algorithms.

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