**Product Architecture Diagram**

Here is the High-Level Architecture and the platform is cloud-hosted and scalable, featuring a modern web frontend, RESTful backend APIs, secure data storage, AI microservices, and third-party integrations.

**Components**

* **Frontend:** Web application built with React.js (or Angular/Vue) to provide a responsive user interface for students, tutors, and admins.
* **Backend:** REST API implemented in Node.js/Express or Python/FastAPI handling business logic, authentication, session management, and integrations.
* **Database:** PostgreSQL (relational) or MongoDB (NoSQL) for storing user data, profiles, session logs, and analytics.
* **AI/ML Microservices:** Python-based services using TensorFlow/PyTorch for GenAI functions and analytics, interfaced via APIs.
* **Cloud Infrastructure:** Hosted on AWS/Azure/GCP using compute (EC2 or equivalent), storage (S3), managed databases (RDS), containerization (Docker), and orchestration (Kubernetes).

