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(57) Abstract :
 The invention presents a cloud-based deep learning model management system designed for enterprise applications, addressing the complexities of model lifecycle management. Leveraging scalable cloud compute resources, the system facilitates the entire deep learning workflow, including data preprocessing, model training, hyperparameter optimization, and deployment. It supports collaboration among data scientists through shared workspaces and real-time tools, with automated version control to track model evolution. Automated deployment pipelines and containerization technologies ensure seamless model deployment across various environments. Real-time monitoring, automated retraining, and advanced analytics tools maintain model accuracy and relevance. Enhanced security features protect data and intellectual property, making the system suitable for industries requiring robust, scalable AI solutions.

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