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**ABSTRACT:**

Building AI generative applications involves several key steps. First, defining the application's objective is crucial—whether it's generating art, text, music, or something else entirely. Next, selecting an appropriate generative model such as GANs (Generative Adversarial Networks), transformers like GPT (Generative Pre-trained Transformer), or recurrent neural networks (RNNs) depending on the specific task requirements. Then, gathering and preprocessing high-quality data that aligns with the desired outputs is essential for training the model effectively.Once prepared, training the model typically requires powerful hardware, often GPUs, to handle the computational demands efficiently. Fine-tuning the model's hyper parameters follows to optimize its performance and enhance the quality of generated outputs. Testing and iterating on the model are necessary to refine its output's coherence and fidelity before deploying the application. Finally, deploying the application involves considerations for scalability, maintenance, and ongoing updates to ensure continued optimal performance.

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