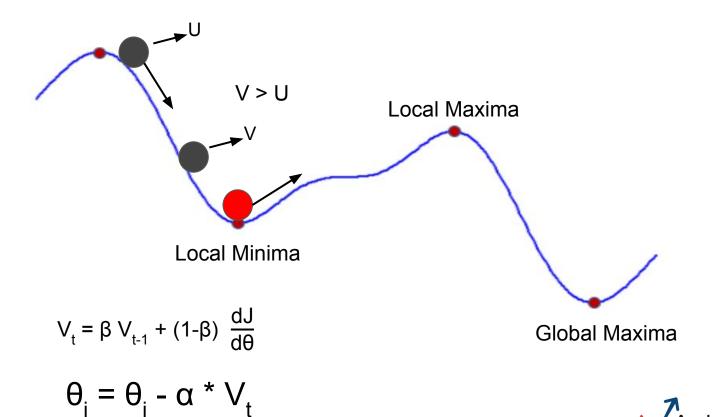
Adam lytics Vidhya



SGD with Momentum





RMSProp

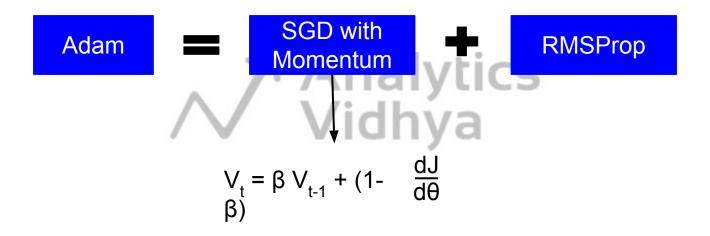
$$\mu_{t} = \beta \mu_{t-1} + (1-\beta) \left[\frac{dJ}{d\theta} \right]^{2}$$

$$\theta_{i} = \theta_{i} - \frac{\alpha}{\sqrt{\mu_{t} + \epsilon}} \frac{dJ}{d\theta}$$

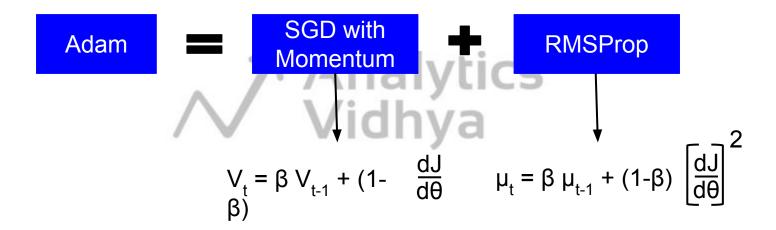




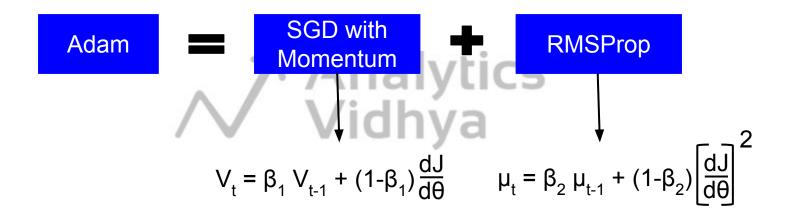






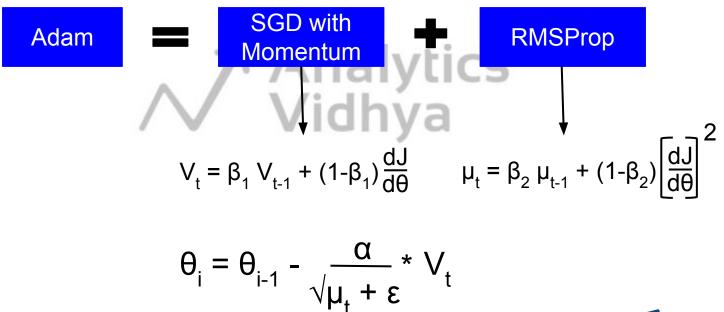






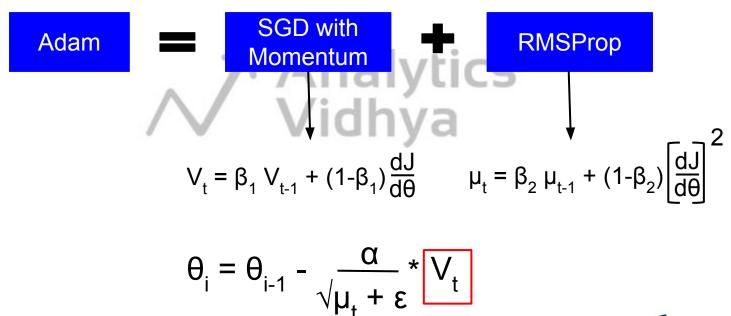


Update Equation: Adam





Update Equation: Adam





Update Equation: Adam

