3agana 1.

N1.

1 type
$$\mathcal{U} = (\mathcal{U}_{1}(x))$$
 $\mathcal{U}_{2}(x)$
 $\mathcal{$

3 Thereps Sygen pagsufambal a uponzboguoun no napatempan nepbono ana. Il navara nan nonago Suma uponzboguar pyruyill aximbayılı: $6^{7}(X) = -(1+e^{-X})^{-2} \cdot (-1) \cdot e^{-X} = (1+e^{-X})^{-2} \cdot (1+e^{-X}) =$ $= 6^{2}(X) \cdot (6^{-1}(X) - 1) = 6(X) \cdot (1-6(X)) = 7 [6^{7}(X) = 6(X) \cdot (1-6(X))]$ Thereps bozbuen uponzboguore boxogob nepbono arak no en

DMSE _ ~ DMSE

 $\partial u_{n} = \sum_{i=1}^{\infty} \frac{\partial g(X_i)}{\partial g(X_i)} \frac{\partial u_n}{\partial u_n}$

$$\frac{\partial MSE}{\partial W_{1h}} = \frac{n}{i=1} \frac{\partial MSE}{\partial W_{1h}(X_i)} \cdot \frac{\partial W_{1h}(X_i)}{\partial W_{1h}} \cdot \frac{\partial W_{1h}(X_i)}{\partial W_{1h}(X_i)}$$

$$\frac{\partial MSE}{\partial B_{1h}} = \sum_{i=1}^{h} \frac{\partial MSE}{\partial u_h(X_i)} \cdot \frac{\partial u_h(X_i)}{\partial B_{1h}}$$

Пусть обугалогуал вогобрка выборка очень бывшах. Погда ионина например, использовань стохастический градичениями спуск, А именно,

1. Bajoukalu ganpore na Susteu (Dameu) 2. Die Karegoro Lueka crumaen paquemu u Suobwen

napoluempor.

$$\Theta_{t+1} = \Theta_t - \eta \cdot \nabla L$$
, uge $L = \frac{1}{B} \cdot \sum_{b=1}^{B} L(\hat{y}_{O_t}(X_{i_b}), Y_{i_b})$, uge B -paguep Sloke $(X_1, ..., X_b)$ -mekyiyu δ_t δ_t δ_t .