$\begin{array}{c}
X = (x; y;)_{i=1}^{k} \\
x; \in \mathbb{R}^{d} \ y; \in Y = \{1, ..., k\}
\end{array}$ $P: \mathbb{R}^{d} \times \mathbb{R}^{d} \rightarrow [0, +\infty)$ $x': p(x', x_0) \in p(x', x_0) \in \dots \in p(x', x_0)$ $a(x') = argmax \sum_{i=1}^{n} 1(y_i) = y$ $p(\alpha') = \sum_{i=1}^{d} (\alpha'_{i,i} - \alpha_{i,j})^2$ $b(\alpha, 1\alpha) = 7 - \cos(\alpha, \alpha, \alpha)$ $G(x') = argmax = \frac{1}{g(x',x)} + E$ (yes-y) X = Rlixd Z = Rlixd ocieX Zi = Z $P(x; z_i) = \sum_{s=1}^{d} (x_i^s - z_i^s)^2 \begin{cases} 1 & d - b \text{ subtaining} \\ 2 & d - b \text{ or } b \text{$ 326262 2 dl1 + 2 dl2 + 2 dl1 l2 = 2 d(l, + l2 + l2) kd-tree y < y2 Σ: φ: Rd -> Rd {φ... φ... γ... γ \propto K-fold in Rd -> Rd x' = y(x) (x) Z'; $\varphi_{o}(Z')$; $\varphi_{i}(Z')$... $\varphi_{n}(Z')$ 1) k(1) < ... < (k(+)) m+1 -> k Ernx. gra Z ronocobanne $(x; y; y) \rightarrow (\varphi(x; y; y))$ $(x; y) \rightarrow (\varphi(x; y) \rightarrow (x; y))$ $p(x; x_i) \in p(x_i, x_i) \in \dots \in p(x_i, x_i)$ X-rector Xi ((xi)... Pm(xi)

Z-reen.

ZI di din ... din

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