15x2.1)

We minimize with respect to u

=> GD: ut=ut-nV Es (ut,v)

114-2112 = < 11, 115 - 2 < 11, 0>+ <0,20)

=> Vy 1/4-v112 = 2(Ket-20)

V Σ ξ φ (k; * μ(x))

kixu(1) = = d ut(x-j) ki(j)

 $\nabla_{\mu}(l; \star u^{\dagger(a)}) = \begin{pmatrix} 0 \\ k_{i}(a) \\ k_{i}(l) \end{pmatrix} \in \mathbb{R}^{NH}$

 $\Rightarrow \bigvee_{\mu} E_{\sigma}^{f_{\sigma}E}(\mu^{t}, \sigma) = \underbrace{1}_{\sigma} (\mu^{t} - \sigma) + \underbrace{\sum_{\nu} \sum_{i \in \mathcal{U}} \sum_{k \in \mathcal{U}} \phi_{i}^{t}(k; \epsilon_{\mu}; \epsilon_{\nu})}_{k; (\mu)} \phi_{i}^{t}(k; \epsilon_{\mu}; \epsilon_{\nu})$

= 1 (u'-w)+ E k; + 0; (k; + u+)

Trafelon of dis Shice Ti = / kild) (Lill)

Thus:

1 = 1 - 1 (1 (10) + 2] * (1 + p! (1 + 11))

mar La(0) = max Elly(po(u)) = mux flog(po(u))p/u) du

Mi KL(p(4) 11 pg (4))

(=) /min) log (p(a)) p(a) du

(=) Min Soffp(u))p(u)du - Stoffpo(a))p(m)du

(=) (min - In (0)

(=) max Za(0)