) MC auditortion of revoion model. ive que autiteture of fre MCP newsork network model. The medical network is considered to be the The remains the new connected by directed weighted paths. Mcculloch-pit newson allows binary actuation (son per OBFF), it extress field with an attation or does not fire with an activation of De existatory else it is known as Turbibliony. Excitatory connections have positive creights and inhibitory commutions have nogative weights. Earn newcon has afiled terreserved for fireing that is if the net input to the newson is generated than the treasuald, it fiers te was Single remain variety the weighted its 5 scjw, + 202 w2+: + xnwn. Sen wor yin=X,W) + X2W2+ X4Wn [= 5(yin) = 5) if yin 20-showald

×1=0 ×2=0 Sin = (1x0) + (1x0) = 0. Otherwold Nor functions using mcp newson model. X1=0 x2=1 X1 12=1 950 = (1X1)+(1X0)=1095 yin (1) Jin= (1X1)+ (1X1)=10 0 yin >0 5 Not Input output x wn XI > 0 Vin = x,w,+6 31-1-) igin=D=101-) [=t=1. 9721 -) yin=1 -) 0 / t=0 9721 -) yin + > 0 / t=0 9321 -) yin + > 0 / t=0 w₁=1 b=0 Thoused 0=0.5 § 1 y yn≥0.5 3 3 Mcc newson model is a foundational compt in newword network but it has beveral limitations that X=0 div= 1x0+0=0.0 X1 = 4in 1x1+0 = 1->:0. note it his suitable for modeling complex or eval world newal networks. NAND Inputx, X2 Output(E) * Binary output -> MCP neuron puddues only binary outputs (0 or 1), which away simplistic. In even yin= xw+rw+b. W=w=1 b=0 biological newsers. The content is more continuous (another) and can look in suspense to different stimuli, Sin <1 4 X=0 x2=0 35tm = (1x0x1x0)+8 impart: This limitations make the ncp model less flerible 0 gin 21 1 x = 0 x = 1 = 1 x = (1 x 0) *(x)=1 when tering to model complex tenanions such as graded X=1X=0=) yin= (1x) x(1x0)=1 supposes that occure in actual neweal Sejetime X1=1 X2=1 => 41 ([X]) x([X])=0 - LOUK of learning Marraviam: ALCD neuron model doce NOP Tenforts (1 X 2 Detport (+) not include a mochanism for leavining or Odoptation In yin= x1w1+x2w2+b other words, it comest adjust its weight or bians · based on experience or fredback. W=1. Wa=1 b=0 input in paiditical neural natural, leaving twowing trough. adjent ments 40 veights (sun a vic parkpregation) is.

The map model dives not account for the temporal demand of nations on their interactions over time. To approate surround Static barbion, where the output only depends on the current input and not on pelewious states or sequences re Inflicibility in Input Representation: MCP model every treat are imports and independent and binary. It doesn't have the flexibility to process continuous or real valued property in a notional way. * Simplified Activation function: The activation function in the MCP mobile is a simple thoushold function, which only determine Combus the neuron files on not bould on the weighted sum of inputs it lowes the more depositionted activations fundion that we commonly the signoid, have be tark functions that are commonly in modern neural networks: Used in modern newal networks. Cinited Expressiones was never model can only represent threatly Spoewall functions, meaning it cononly solve problems that as divided into two distinct clases by a straight line (or hyperflore in healing limensions). Complet tasks (the xor ceculial or), which are not be solved by a single my newson. No interaction Between Newcons, My model towards each newconin Exploitions, with no commerciation or interaction between newea To does not supposed the tomept of a religible retrout one religious one interconnected and work together to process information