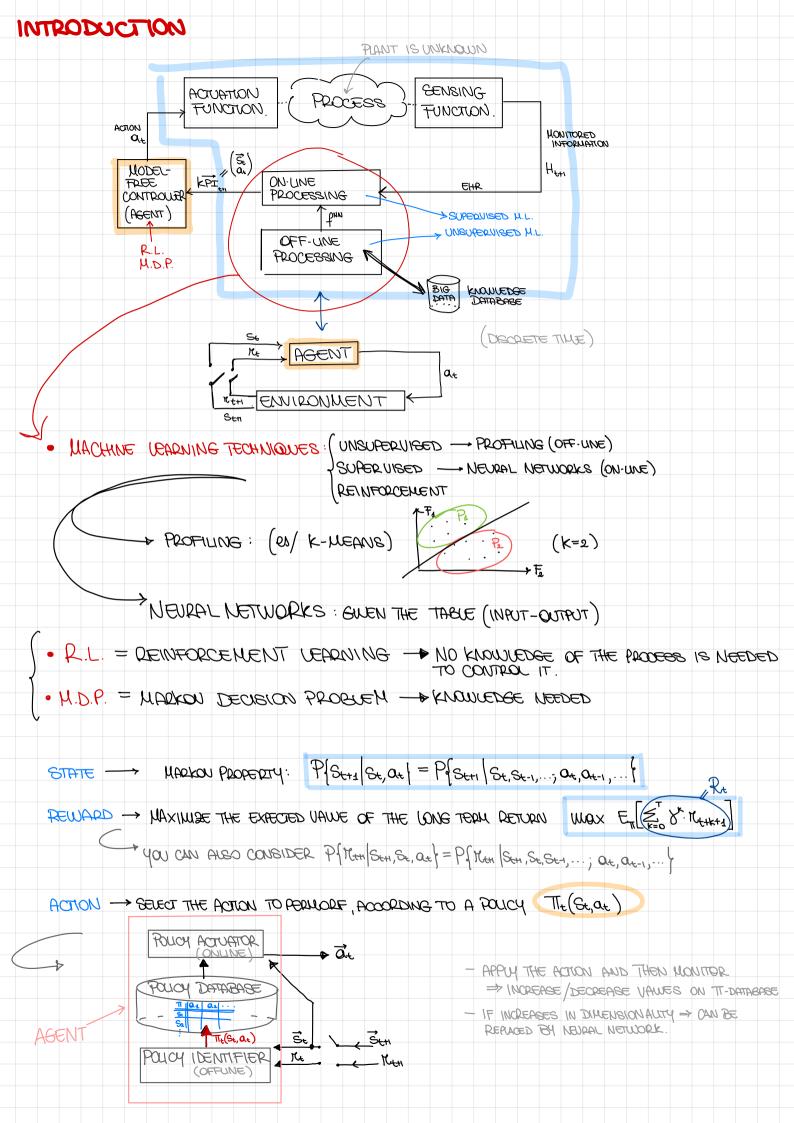
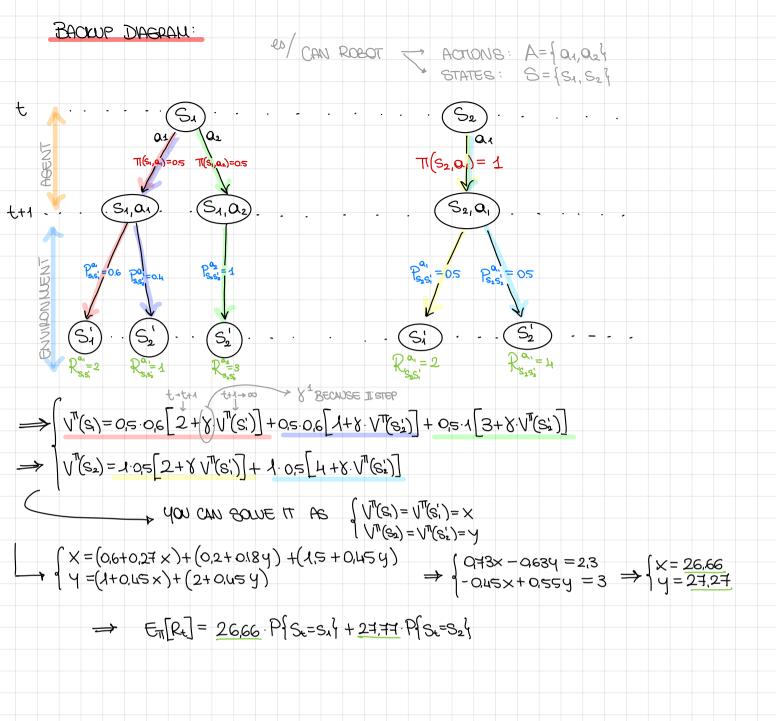
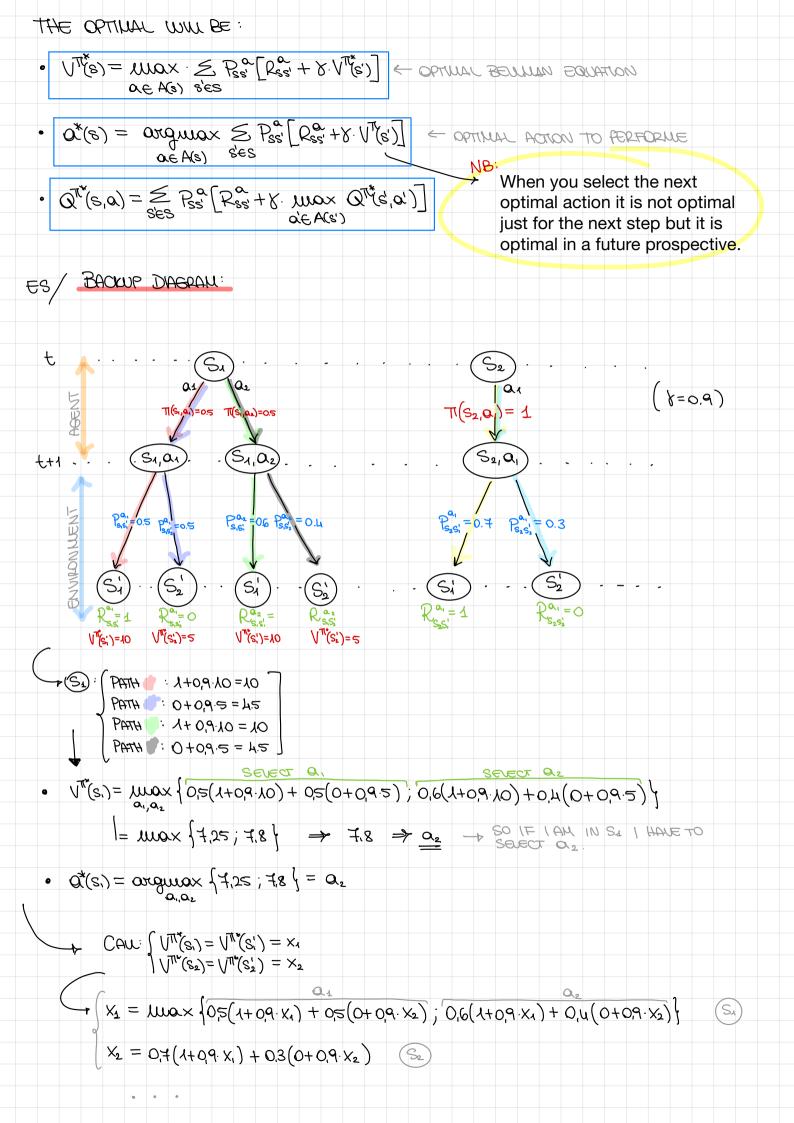
## CCEN

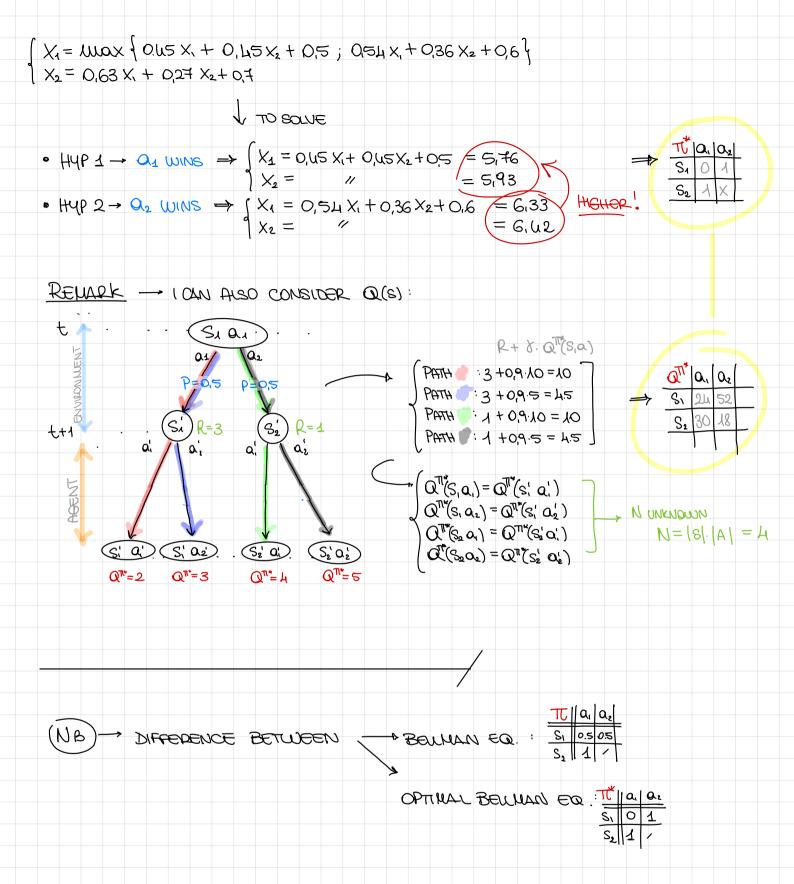
bucot	DOBO	HWOOLI

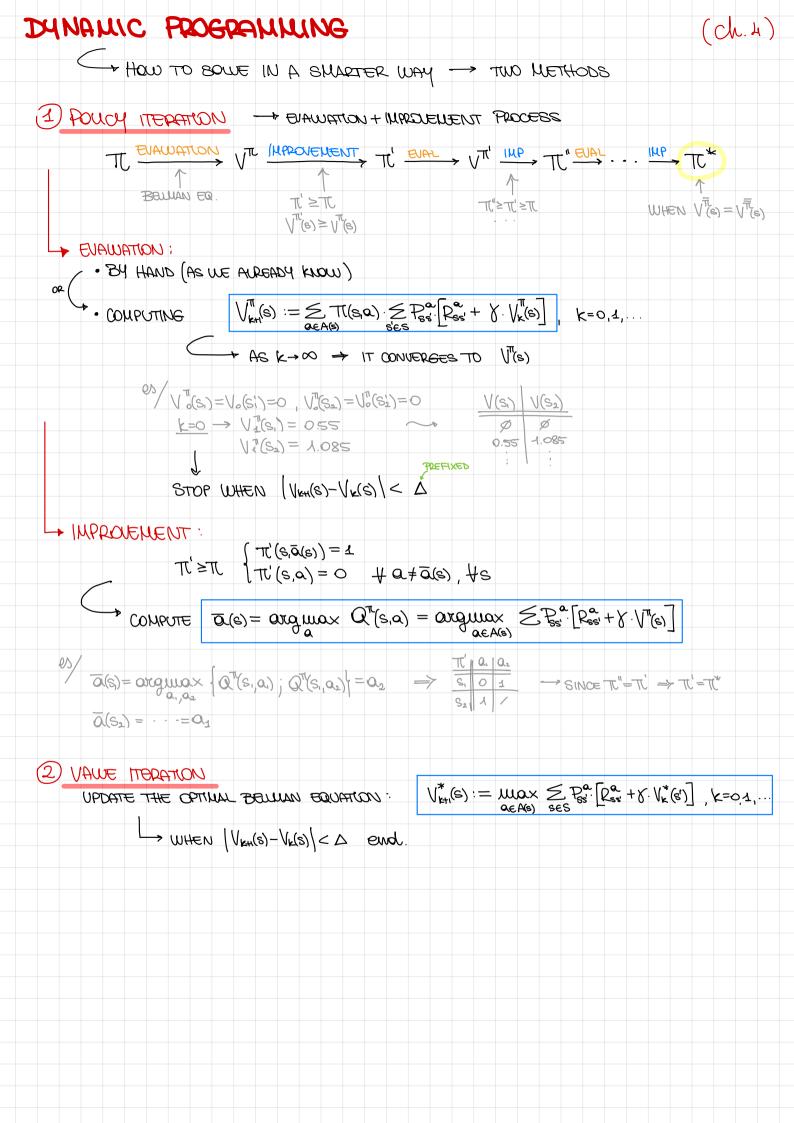


## MARKON DECIBION PROCESS - YOU KNOW THE PROCESS THROUGH: • TRANSMON PROBLEMENTES: Pa = Po Str=8' St=8, at=a} · EXPECTED VALUE OF THE NEXT DEWARD: Ros = E 1/44 St=8, Qt=Q, Str=s' TARGET: FIND THE OPTIMAL POWCY IT WHICH WAXIMED SHT CONT. Max En[Re] = En[208 K Marken] = Z [En[Re|Se=s] Pose=s] · STATE VALUE FUNCTION FOR POLICY TT: VT(s) = En[Re|Se=s] = En[2 yk Merken | Se=s] THE POUCY TI THEREAFTER. - NOTHINGS NAMUSE 4 $\sqrt{1}(s) = \underbrace{\pi(s, \alpha)}_{s \in S} \underbrace{P_{ss'}^{\alpha} \left[ P_{ss'}^{\alpha} + \delta \cdot V^{\pi}(s') \right]}$ Max A THE VALUE OF THE STADTING STATE = WEIGHTED SUM OF THE POSSIBLE ADDIVAL STATES + THE REWARDS ASSOCIATED TO THE TRANSITION FROM THE START TO THE POSSIBLE ARRIVALS STATES. THE WEIGHT OF EACH POSSIBLE ADDWAL STATES = PROBABULTY OF ADDUNCE AT SUCH STATE. TO GET AN OPTIMAL POUCY? > T(\* SUCH THAT: VT(s) ≥ VT(s), Hs, HT. (TH. -> THERE AWAYS EXISTS.) · ACTION-VALUE FUNCTION FOR POLICY TU: $Q^{\pi}(s, \alpha) = \operatorname{Ex}[R_{t}|s_{t}=s, \alpha_{t}=\alpha] \qquad \Longrightarrow = \operatorname{Ex}[R_{ss'}[R_{ss'}+\gamma, \max_{\alpha' \in A(s')}Q^{\pi}(s', \alpha')]$ + EXPECTED LONG TERM RETURN WHEN TAKING THE ACTION ON IN STATE & AND FOUNDAING THE POUCY TI. $\sqrt{\Gamma(s)} = \dots = \underbrace{\mathbb{E}_{\pi} \left[ \mathbb{R}_{\varepsilon} \middle| S_{\varepsilon} = S, \alpha_{\varepsilon} = \alpha \right]}_{a \in A(s)} \cdot \mathbb{P} \left\{ \alpha_{\varepsilon} = \alpha \middle| S_{\varepsilon} = S \right\} = \underbrace{\mathbb{E}_{\pi} \left[ \mathbb{R}_{\varepsilon} \middle| S_{\varepsilon} = \alpha \right]}_{a \in A(s)} \cdot \mathbb{P} \left\{ \alpha_{\varepsilon} = \alpha \middle| S_{\varepsilon} = S \right\} = \underbrace{\mathbb{E}_{\pi} \left[ \mathbb{R}_{\varepsilon} \middle| S_{\varepsilon} = \alpha \right]}_{a \in A(s)} \cdot \mathbb{P} \left\{ \alpha_{\varepsilon} = \alpha \middle| S_{\varepsilon} = S \right\} = \underbrace{\mathbb{E}_{\pi} \left[ \mathbb{R}_{\varepsilon} \middle| S_{\varepsilon} = \alpha \right]}_{a \in A(s)} \cdot \mathbb{P} \left\{ \alpha_{\varepsilon} = \alpha \middle| S_{\varepsilon} = S \right\} = \underbrace{\mathbb{E}_{\pi} \left[ \mathbb{R}_{\varepsilon} \middle| S_{\varepsilon} = \alpha \middle| S_{\varepsilon} = \alpha \middle| S_{\varepsilon} = S \right]}_{a \in A(s)} = \underbrace{\mathbb{E}_{\pi} \left[ \mathbb{R}_{\varepsilon} \middle| S_{\varepsilon} = \alpha \middle| S_{\varepsilon} = S \middle| S_{\varepsilon} = S$











## -CAMS-DENTIFICATION OF "L" DENTIFICATION DOCTOR KEY PERFORMANCE INDICATIONS (KPIB) OF THE "F" OFF -UNE THE PHILENTS THE PHILENTS OF "D" PARAMETERS FOR EACH PROFUE P (#) WHICH CAN SE MONTOPED (AND IMPACT ON THE KPIS) IDENTIFICATION OF OFF-UNE THE REJEVANT "KP!" 1DENTHPICATION EUAWATION MODEL OF "P" PATIENT PROFILES PROPILES KP1, KP12 ... KP1, $\overrightarrow{\mathsf{HPI}} = \frac{\mathsf{L}}{\mathsf{LP}}(\textcircled{\texttt{P}}) \not = \mathsf{L}_{2} \cdot \mathsf{P}$ P1, P2 ... PP (K-LIEANS) CLABSIFICATION PUUES NEW ON-UNE) PATIENTS KPI EVALUATION FOR THE PROFILE N; (;=1,2...) PATIENT BEDNEING TO THE PLOFILE AP OT TUBLICA PARA u; (i=1,2.-) THE PATUENTS PROPILE 1: (#)(N2^1) • f<sub>1</sub> · 14 , 12 (h(1) KP1 (121) CONTROUBRS KPI EVALUATION FOR THE PATIENT MY KPI(W) $\overline{\text{Epi}}(M_1^{\lambda}) = f_1(\overline{\mathbb{H}}(M_1^{\lambda}))$ MONTORES KPI = (P) $j = \lambda, 2, ... \rho$ • TRAINING PHASE → DEDUCE W; TO REDUCE \$1 OPERATIONAL PHASE → USE KPI(U,¹) = P, ((x̄)) [NN] INTRODUCE PL Q+(112)> - - -POUCY ACTUATOR 0+(N;),> - - $w_{HH} \stackrel{\text{RP}}{\models} = \begin{pmatrix} \vec{s} \\ r \end{pmatrix}$ FOR FATURITY US! KPI (Ni) NOVENNOT D (Mi). EVANCATOR FOR PATIENT IL. $Q^*(S_{\epsilon}, \alpha_{\epsilon}) = \max_{\pi} Q_{\pi}(S_{\epsilon}, \alpha)$ • $Q_{\pi}(S_{t}, Q_{t}) = E_{\pi}\left[\sum_{k=0}^{\infty} \delta^{k} \cdot r_{t+k+1}\right] S_{t} Q_{t}$

•  $V_t = - \| \overrightarrow{S_t} - S_{taxget} \|$ 

