| Neil Adrian B. Baltar | |
|--|-----------------------------------|
| | NO.: DATE: 8/20/25 |
| A P P II - CAM27 | |
| Neil Adrian B. Baltar COM22 | 0 = 1371 1 - 1372 0 1 |
| Given: | - [0.9 0] |
| Given: Rschool = [+5] Rstay = [-5] Pschool = [0.8 02] Pstay = [0.9 01] | |
| State wise average reward (rt) | |
| | |
| 1. Sunny rt = 0.5(5) + 0.5(-5) = 2.5 | +(-2.5) = 0 |
| 2. (loudy $rx = 0.5(3) + 0.5(1) = 1.5$ | |
| | |
| 3. Matrix | (Emil var (drudy) |
| $r_{\mathcal{T}} = \begin{bmatrix} 0 \\ 2 \end{bmatrix}$ | VAL Cloudy) |
| | 1202.0 |
| Policy Transition Matrix | - VIT(clovely) = 7.602 |
| Row I (Sunny) | 06 - 040 ± 0.45 = 0.85 |
| $P\pi(1,1) = 0.5 \times 0.8 + 0.5 \times 0.9 = 0.40 + 0.45 = 0.85$ $P\pi(1,2) = 0.5 \times 0.2 + 6.5 \times 0.1 = 0.10 + 0.05 = 0.15$ | |
| Row 2 (Cloudy) | |
| $P\pi(2,1) = 0.5 \times 0.4 + 0.5 \times 0.3 = 0.20 + 0.15 = 0.35$ | |
| · Pt (2,2) = 0.5 x 6.6 + 0.5 x 0.7 = 0.30 + 0.35 = 0.65 | |
| 4. Matrix | |
| | |
| PT - 0.35 0.15 | |
| Bellman Equation | |
| The state of the s | oudy: |
| $V_1 = 6 + 0.9(0.85 v_1 + 0.15 v_2) V_2$ | = 2 + 10(0.39 + 1065) |
| $V_1 = 6 + 0.76S_V + 0.13S_{V_2}$ V_2 | = 2 1 0.315 1 0 505 |
| $V_1 - 0.765V_1 - 0.135V_2 = 0$ V_2 | $3 = 2 + 0.315_{11} + 0.585_{12}$ |
| 17 0.703 17 0.733 12 0 | -0.31SV, -0.88SV2= #2 |
| 1735 176 | 0.216 |
| $0.235_{V_1} - 0.135_{V_2} = 0$ | -0.315v, + 0.415v2=2 |
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