

Team Effectiveness Report - Team3643

Reinforcement Learning Agent: (True online Sarsa(λ) - Topic 4)

Team Members: Aasish Tammana(1225545568), Akhilesh Udayashankar(1225622476), Prem Suresh Kumar(1225492151), Devadutt Sanka(1225362138)

Prem Suresh Kumar - 25%

Studied True online Sarsa(λ) and the differences between Q-learning and SARSA
Coded True online Sarsa(λ) algorithm and performed Integration with project 4
Tested the Completeness and correctness of the code and Debugged corner cases.
Create script for generating different environments
Contributed to document the Introduction and Implementation part of the report

Akhilesh Udayashankar - 25%

Did Extensive research about True online Sarsa(λ)
Implemented True online Sarsa(λ) and Integrated it with the pacman domain
Learnt T-test and Anova along with their differences and finalized T-test
Tested the Completeness and Debugged errors
Contributed to document the Introduction and Implementation part of the report

Aasish Tammana - 25%

Researched the differences between Q-learning and SARSA
Studied T-test and Anova and worked on the implementation of Student's T-test
Created script for generating different environments and collected results of each environment
Compare the performance of SARSA with the Q-learning agent and plotted graphs
Contributed to document the Results, Analysis and Conclusion part of the report

Devadutt Sanka - 25%

Studied True online Sarsa(λ) and performed research on the algorithm
Understand T-test and Anova differences
Collect results for each environment for comparison
Plotted graphs for comparison of the 2 algorithms and summarized the results for T-test
Contributed to document the Results, Analysis and Conclusion part of the report

Signatures:



Prem Suresh Kumar



Akhilesh Udayashankar



Devadutt Sanka



Aasish Tammana