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AI Assignment - 3

Roll [No. 1232062] 196010 bas fill
Batch 100 Batch 100 coboll the enjudice Aim: Implementation objet At Algor C'aludy a givesu optimal d'adultots for solving purzle problèmes de la lance Theory:

Atois a computer algorithm that
is widely used in path finding &
graph traversal. The process of plotting
an efficiently traversable path blus
multiple points called Nodes. Noted
for its performance fraccuracy it
anjoys widespread ruse

They key feature of the Ato
algorithm is that it keeps track of
each visited node which kelps in ignoring
the nodes that are already visited

saving a huge namount of time. It
also has a list that holds all the
nodes that are deft to be explored to nodes that we deft to be explored of it chooses the most optimal node from the list thus sanny time not exploring unnecessary or less optimal nodes in graph / tree.

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list and closed list. The open list contains all nodes that one being generated & are not existing in the closed list and each node explored after its neighbouring nodes are discovered in put in the dosed list and the neighboures are put in the Each node has a pointer to its parent so their at any given point it can:

retrace the perth to the parent. Initially
the open list holds the steart node. The

next node: Choosen from the open list is based on its f-score, the node with the least f-score is picked up & explored of sented of poli F- Score = 1H sobert b discore At uses a combination of the heuristich Malue 16 h-13 core: how four the good node is ) as well as the (g-score the not obinodes treversed from it start node to current node ): clar tondac beet ac grown in

