

# NATURAL LANGUAGE PROCESSING IN CHATBOT DEVELOPMENT EXPLAINED



# Development Explained For Creators 14 1698 Chatbot Development Explained

**Rashid Khan,Anik Das**



## **Development Explained For Creators 14 1698 Chatbot Development Explained:**

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for an integer programming model  $p$  the linear programming model we get by dropping the requirement that all variables must be integers is called the linear programming relaxation of  $p$  the steps are divide a problem into subproblems calculate the lp relaxation of a subproblem

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exercise 9 an optimal control problem with an analytical solution we consider the problem of maximizing a linear function of the final state of a linear system subject to bounds on the inputs maximize  $dx_n$  subject to  $u^T u \leq 0$   $n-1$   $n p_1 \leq 0$   $u^T \alpha \leq 1$  where  $x$  and  $u$  are related via the recursion  $x_{t+1} = Ax_t + Bu_t$

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2018 2019 exercise 3 determine using the simplex algorithm with bland's rule the optimal solution to the following linear programming problem  $\max s = 3x_1 + 5x_2 + 2x_3 + 4x_4$   $x_1 + 2x_2 + 3x_3 + 4x_4 \leq 3$   $2x_1 + x_2 + x_3 + 2x_4 \leq 4$   $x_1, x_2, x_3, x_4 \geq 0$  solution the problem in standard form is the initial tableau is  $\min s = 3s_1 + 5s_2$

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recognize the typical form of a linear programming problem formulate maximization linear programming problems graph feasible regions for maximization linear programming problems determine optimal solutions for maximization linear programming problems

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later every dollar invested in the activity  $b$  for each year becomes  $1.70$  three years

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