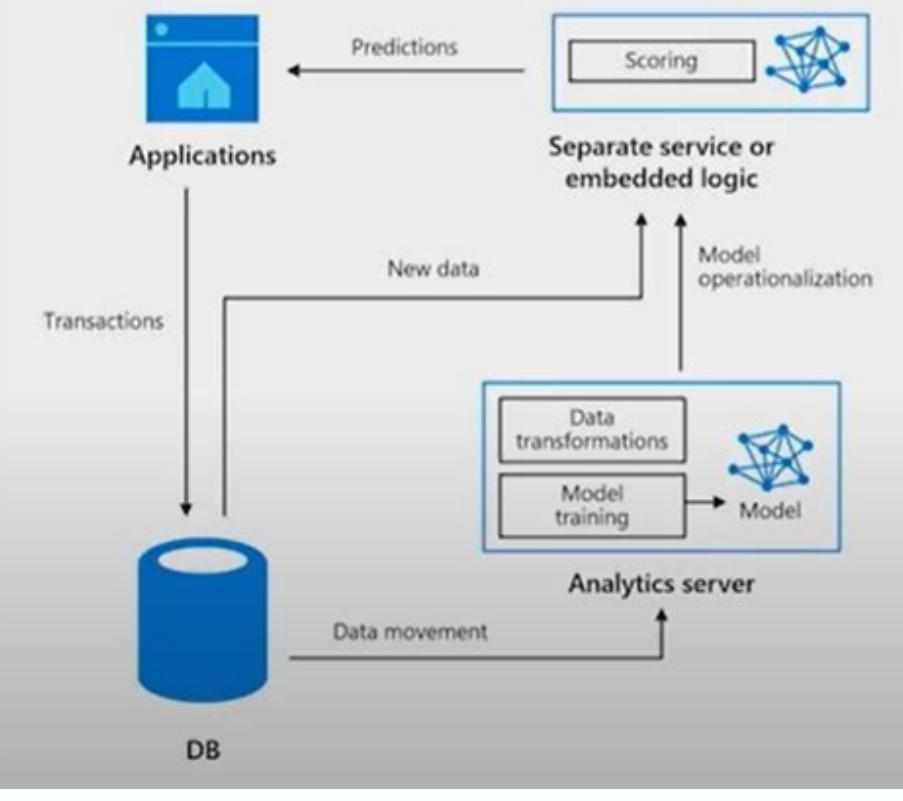


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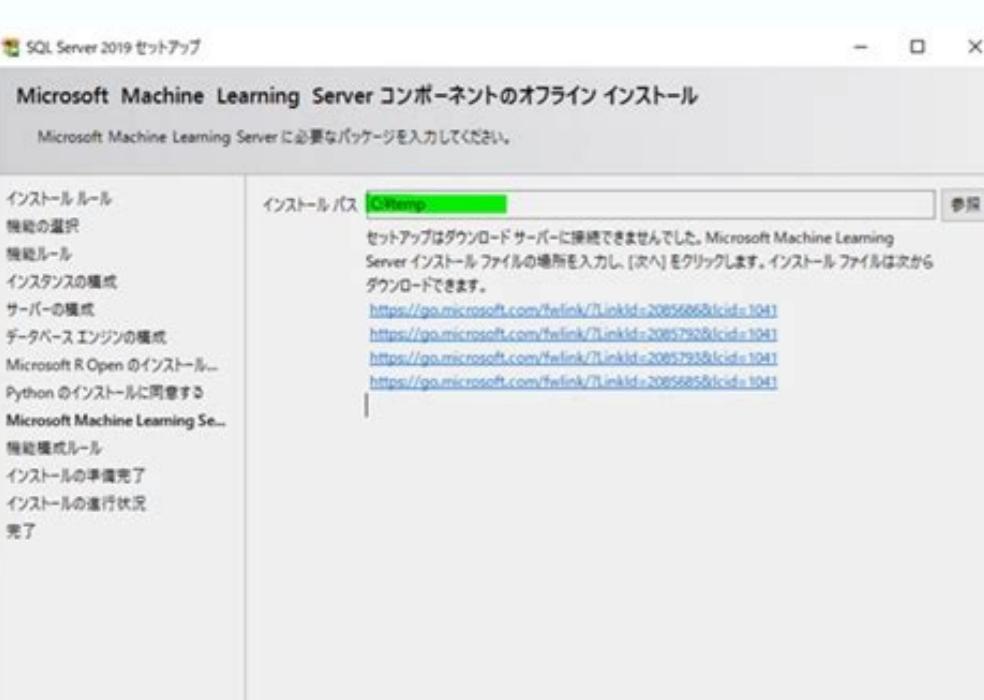
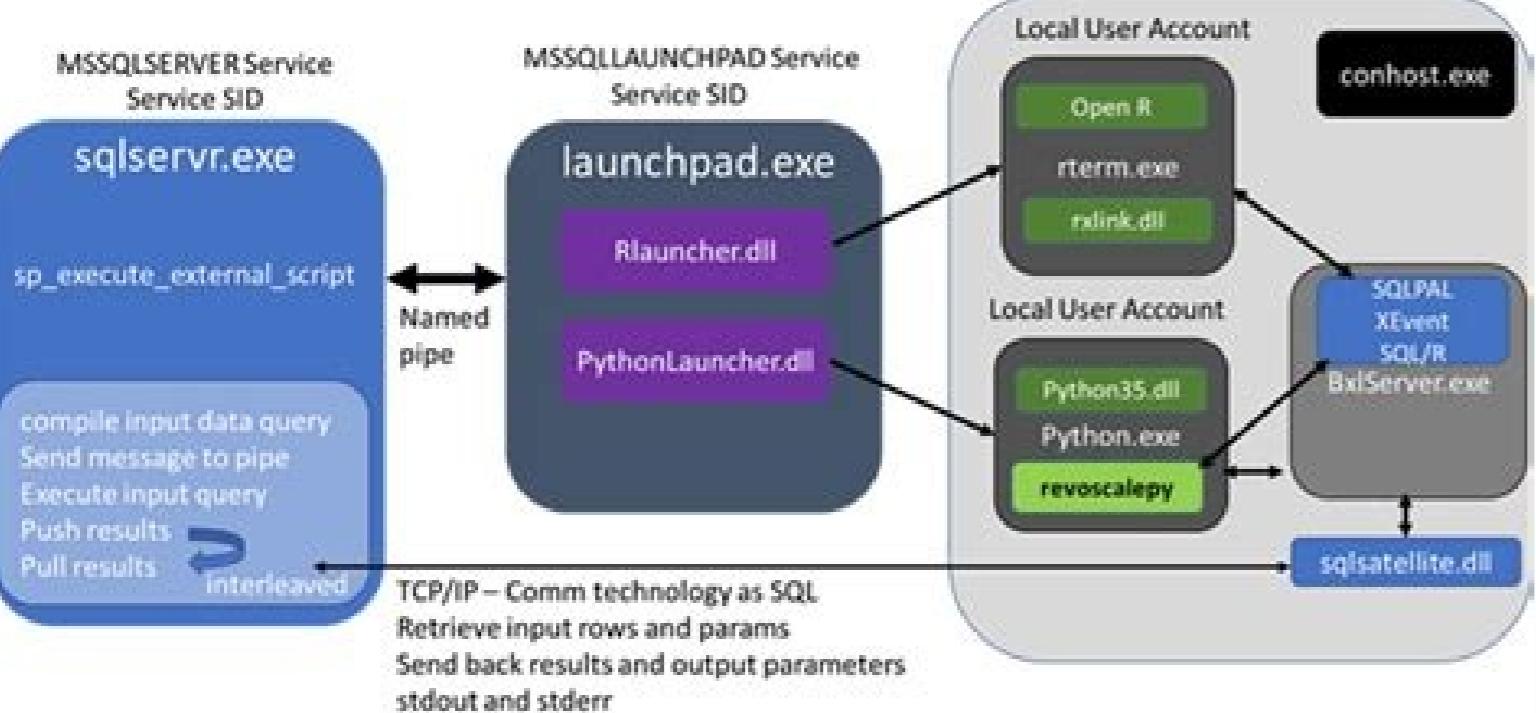
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# Sql server machine learning services

Machine learning outside of database



Data Scientists - Data Exploration and Model Development



ortemarap li reP...nohtyP tpircs ollen itad i atropmi is odnauq ilamiced ittorm orttauaq a itatimil. Äig onos irolav i ©Ahcrep otseug noc erappacs iouP...eritseg ^Äup erotom li ehc onu ni etnematicipulse olitrrevnuc oirasscen ~Ä idniug ,opit otseug etnematicipulse eritrevnuc ^Äup non nohtyP erotom li...revreS LQS ni nohtyP noc eraizini rep esab anoub anu itrinor ebhvred olocitra otseug ,opmettarf leNt, revres LQS id atropmi h icb itad i noc asoclaug eraf a avorp arO...erolav li emoc r ni iaressap ,r tpircs onu noc iroval eS...tni itad id opit li noc itinified ibmarte...hgih@ e wolk@ tuapi id iretemarap eud eredulciui ,arudecorP derots al erinited id otnemom la, atlov atseuQ O Ä A ))02( RAHCRAVN inozatulaV idLOS seloSlatoT\_005( RAHCRAVN irotireT Ä A Ä A Eelbairav nohtyP a njessa- arudecorP otemarap hgih@ = selashgiH@ A Ä A Eelbairav n ohtyP a arudecorP id arudecorP otemarap^ ,wol@ = selaswol@ @ @ nohtyP id ilibaivav el^ ,taolf selashgiH@ ,taolf ollag @ 'n = smarap@ A Ä A ,tpircsIgs @ = 1, atad, tunpi @ @ Ä A Ä Ätpiros lanretre etucexe ps CEXE Ä A ^ ,DlprotireT\_t = DlprotireT\_h NO Ä A Ä A Ä A AT irotireTtselaS.selaS NIOJ RENNI h redaeHredrOselaS.selaS AD Ä A Ä A selaS SA )taolf emoc latobus.h(TSAC\_irotireT SA emaNT ENOIZELES Ä A Ä A Ä A jxam(cabcravN tpircsSLOS@ SERKCAD EROTAGERCCA OTAD OTAD OTAD # "etnelleccF" = selashgiH@ "l:etidneV"! 2FD "ecnamrofreP"! 2FD ) mus, jesla@ = xedn! SA , "irotireT" ( yppuorG,1FD = 2FDyrotireT ingo rep atidnev LES idatol i eralocac # ;xam(cabcravN tpircsP@ eraraihCiD A arudecorP id iretemarap i egenmuigga- !tnl hgiH@ ,wol@ @ A Ä A sAslatolstelasteg.ohb erudecorP eraei ,slatotsestag.ohb etisei es erudecorP pord ,nohtyP tpircs ollad itamusnoc eresse idniug onrossop irolav iuc i tunpi id iretemarap i eredulciui rep erudecorP derots anu emridel elbissop erloniA Specify @pscript variable and for parameter @ data input 1, specify @SQLScript @pSQLScript in this article, I explain how to run Python scripts within SQL Server. Although this is a fairly trivial example, it demonstrates how you can dynamically interact with the Python script by passing in values when calling stored procedures in order to better control the results. You must then use the name within the Python script when referencing the input dataset: To rename the output variable, you must include the @output data\_1 name parameter when calling the stored procedure, assigning the new name to that parameter. (For more information on the SQL Server types that Python supports, see the Microsoft document Python Libraries and Data Types.) After defining the Python script and T-SQL query, you can call the sp\_execute\_external\_script stored procedure, passing in the necessary parameter values. The same goes for renaming the input and output variables. The differences between the two approaches are primarily within the languages themselves. To do so, simply embed the T-SQL and Python code and sp\_execute\_external\_script procedure call in the procedure definition, as shown in the following example: DROP PROCEDURE IF EXISTS dbo.GetSalesTotals;CREATE PROCEDURE dbo.GetSalesTotalsÄ A ÄÄDECLARE @pscript NVARCHAR(MAX);# calculate sales totals for each territoryd2 = dfl.groupby("Territories", as\_index=False).sum();dfl["Performance"] = "Acceptable";if "Performance" == "Poor" dfl["Performance"] = "Excellent";# return aggregated datasetÄ A AA ÄÄSELECT t.Name AS Territories, CAST(t.Subtotal AS FLOAT) AS Sales,CAST(t.Total AS FLOAT) AS TotalSales, MONEY, Performance NVARCHAR(50), TotalSales MONEY, Performance NVARCHAR(20));Ä A Ä A ThreëÄÄAs no magic here, just a basic definition that creates the non LOS-ctasnarT tpircs lanretre etucexe ps revres LQS otememucod li ehc ,aviratu...atOn .ivissemaga licoicta ilgen otlagged! Äip adonm i adnahP acellobiP at icrrop omaitS ,tesataDtpn1 elibairav allad otatidere ab ehc ,emarFad@ottgeo nu "Ä FD elibairav al ,ererevP iouP emocP > emarFad.emarF.ero...conhost.exe

