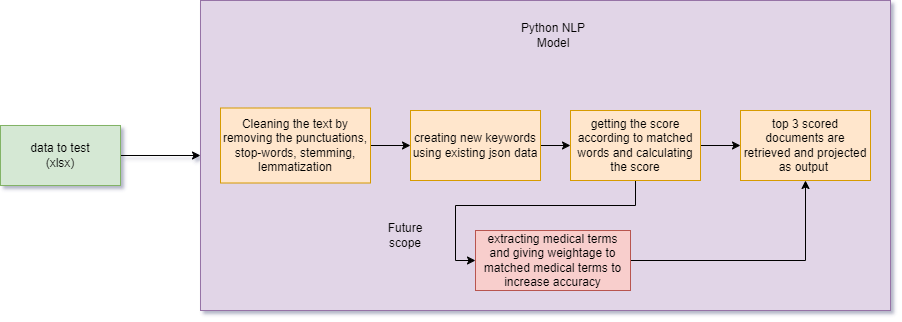
Python NLP model understanding:

Data flow diagram:



**Example:**

**Sentence**: Please email Dr. Luu Sema 2.4mg Overview for his planâ€™s review. Infographics when available.

**ProductName**: Wegovy

**DOC ID:** SEOB 111 – not present in test data file

**Extracted Keywords**: 'dr', 'available', 'overview'

**Prediction\_Document\_1**:

**Doc ID**: SEOB 010

**Keywords**: overview,approval,summary

**New\_keywords**: summary,approval,overview

**Score**: 20.0

**Prediction\_Document\_2**:

**Doc ID**: SEOB 400

**Keywords**: medicaid,formulary,summary,overview

**New\_keywords**: ,medicaid,summary,formulary,overview

**Score**: 16.6666666667

**Prediction\_Document\_3**:

**Document Name**: Approval and Product Overview (SEOB 010) (v3.0)

**Doc ID**: SEOB 400

**Keywords**: step,overview,slide,clinical,pi

**New\_keywords**: ,step,slide,clinical,pi,overview

**Score**: 14.2857142857

**Sentence**: Please email me a copy of the updated Ozempic on label slide deck.

**ProductName**: Ozempic

**DOC ID:** SEOB 111 – not present in test data file

**Extracted Keywords**: 'slide', 'deck', 'ozempic'

**Prediction\_Document\_1**:

**Doc ID**: SEM 600

**Keywords**: clinical,overview,slide,slides,deck

**New\_keywords**: clinical,deck,slide,overview

**Score**: 40

**Prediction\_Document\_2**:

**Doc ID**: SEOB 400

**Keywords**: sustain,overview,slide,slides,clinical

**New\_keywords**: sustain,clinical,slide,overview

**Score**: 16.6666666667

**Prediction\_Document\_3**:

**Document Name**: Approval and Product Overview (SEOB 010) (v3.0)

**Doc ID**: SEM 158

**Keywords**: ozempic,semaglutide injection,drug,interaction

**New\_keywords**: interaction,drug,semaglutide injection,ozempic

**Score**: 16.6666666667

**JSON\_DATA**:

{

"low": ["low","lowest","lower"],

"low-dose": ["low-dose"],

"initiation": ["initiation"],

"starting dose": ["starting dose"],

"cutoff": ["cutoff"],

"sensitivity": ["sensitivity"],

"specificity": ["specificity"],

"3 mg": ["3 mg"],

"start": ["start","starting","starter"],

"usp": ["usp"],

"sterile": ["sterile","sterility"],

"stable": ["stable","stability"],

"test": ["test"],

"stress": ["stress"],

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"accurate": ["accurate","accuracy"],

"volume": ["volume","volumes"],

"international organization for standardization": [

"international organization for standardization"

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"deliver": ["deliver","delivery"],

"international": ["international"],

"standardidization": ["standardidization"],

"international organization": ["international organization"],

"organization": ["organization"],

"gi disease": ["gi disease"],

"gi conditions": ["gi conditions"],

"gerd": ["gerd"],

"gastritis": ["gastritis"],

"ulcerative colitis": ["ulcerative colitis"],

"ibs": ["ibs","irritable bowel syndrome"],

"crohn's disease": ["crohn's disease"],

"acute": ["acute"],

"chronic": ["chronic"],

"gi": ["gi","gastrointestinal"],

"colitis": ["colitis"],

"crohn's": ["crohn's"],

"adolescent": ["adolescent","adolescents"],

"teens": ["teens"],

"adverse event": ["adverse event","adverse events"],

"reporting": ["reporting"],

"fda": ["fda"],

"adverse": ["adverse"],

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"adverse reaction": ["adverse reaction"],

"side effect": ["side effect"],

"air": ["air"],

"bubble": ["bubble","bubbles"],

"foam": ["foam","foams"],

"xray": ["xray","x-ray","x-rays","xrays"],

"airport": ["airport"],

"security": ["security"],

"tsa": ["tsa","transportation security administration"],

"transportation": ["transportation"],

"radiation": ["radiation"],

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"alcohol dependency": ["alcohol dependency"],

"consumption": ["consumption"],

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"anaphylactic": ["anaphylactic"],

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"rash": ["rash"],

"immunogenic": ["immunogenic","immunogenicity"],

"immune complex disease": ["immune complex disease"],

"antibody": ["antibody","antibodies"],

"injection": ["injection"],

"contraindication": ["contraindication","contraindicated"],

"niacin": ["niacin"],

"alopecia": ["alopecia"],

"hair": ["hair"],

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"dementia": ["dementia"],

"cognition": ["cognition","cognitive"],

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"template": ["template"],

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"trial": ["trial","trials"],

"study": ["study","studies"],

"program": ["program"],

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"available": ["available","availability"],

"overview": ["overview"],

"launch": ["launch"],

"date": ["date"],

"macrilen": ["macrilen"],

"approval and product overview": ["approval and product overview"],

"prescribing information": ["prescribing information"],

"glp-1": ["glp-1","glp 1","glp1"],

"summary": ["summary"],

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"bariatric surgery glp-1 ras victoza ozempic rybelsus"

],

"bariatric surgery": ["bariatric surgery"],

"anti-obesity medications": ["anti-obesity medications"],

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"wegovy": ["wegovy"],

"bariatric": ["bariatric"],

"gastric bypass": ["gastric bypass"],

"roux": ["roux"],

"roux-en-y": ["roux-en-y"],

"banding": ["banding"],

"surgery": ["surgery"],

"stapling": ["stapling","stapled"],

"obesity-related surgery": ["obesity-related surgery","obesity related surgery"],

"sleeve": ["sleeve"],

"gastric": ["gastric"],

"bypass": ["bypass"],

"lap banding": ["lap banding"],

"battery": ["battery"],

"life": ["life"],

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"echo": ["echo"],

"expire": ["expire"],

"duration": ["duration"],

"last": ["last"],

"dead": ["dead"],

"novopen": ["novopen"],

"beta cell": ["beta cell","beta-cell"],

"function": ["function"],

"preservation": ["preservation"],

"homa-b": ["homa-b","homab","homa b"],

"c-peptide": ["c-peptide","c peptide"],

"beta": ["beta"],

"cell": ["cell"],

"insulin": ["insulin"],

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"infusion": ["infusion"],

"pancreas": ["pancreas"],

"rate": ["rate"],

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"igtt": ["igtt"],

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"bed": ["bed","binge eating disorder","binge eating"],

"bulimia": ["bulimia"],

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"bp": ["bp","blood pressure"],

"pressure": ["pressure"],

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"sbp": ["sbp"],

"diastolic": ["diastolic"],

"dbp": ["dbp"],

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"blood": ["blood"],

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"cardiovascular": ["cardiovascular","cv"],

"bpm": ["bpm"],

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"diastolic blood pressure": ["diastolic blood pressure","dbp"],

"heart rate": ["heart rate","hr"],

"body composition": ["body composition"],

"obesity": ["obesity"],

"type 2 diabetes": ["type 2 diabetes"],

"fat tissue": ["fat tissue"],

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"lean": ["lean"],

"visceral": ["visceral"],

"dxa": ["dxa"],

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"tumor": ["tumor","tumors"],

"oncology": ["oncology"],

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"implant": ["implant","implantation"],

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"cardiothoracic": ["cardiothoracic"],

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"ascvd":["atherosclerotic cardiovascular disease","ascvd"],

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"mi": ["mi","myocardial infarction"],

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"stroke": ["stroke"],

"ischemia": ["ischemia"],

"ischemic": ["ischemic"],

"cvot": ["cardiovascular outcome trial","cvot"],

"outcome": ["outcome"],

"select": ["select"],

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"hf": ["hf","hear failure"],

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"cgm": ["cgm"],

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"antidiabetic": ["antidiabetic"],

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"antihypertensive": ["antihypertensive"],

"medication": ["medication","medications"],

"drug": ["drug"],

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"clarification": ["clarification"],

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"trials": ["trials"],

"data": ["data"],

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"clinical": ["clinical"],

"slide": ["slide","slides"],

"deck": ["deck"],

"pi": ["pi"],

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"study participation": ["study participation"],

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"apcc": ["apcc"],

"sequential": ["sequential"],

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"roche": ["roche"],

"fviii mimetic": ["fviii mimetic"],

"concurrent": ["concurrent"],

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"qsymia": ["qsymia"],

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"lixisenatide": ["lixisenatide"],

"bolus": ["bolus"],

"prandial": ["prandial"],

"mealtime": ["mealtime"],

"short-acting": ["short-acting","short acting"],

"rapid-acting": ["rapid-acting"],

"sglt2": ["sglt2"],

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"14 mg": ["14 mg"],

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"versus": ["versus"],

"fix": ["fix"],

"factor": ["factor"],

"ix": ["ix"],

"factor ix": ["factor ix"],

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"fviii": ["fviii"],

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"nni insulins": ["nni insulins"],

"inpen": ["inpen"],

"humapen luxura": ["humapen luxura"],

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"attachment": ["attachment"],

"pen": ["pen"],

"novopen 6": ["novopen 6"],

"novopen echo plus": ["novopen echo plus"],

"continuous": ["continuous"],

"ci": ["ci"],

"pump": ["pump"],

"cost": ["cost"],

"price": ["price"],

"coverage": ["coverage"],

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"savings": ["savings"],

"copay": ["copay"],

"insurance": ["insurance"],

"pricing": ["pricing"],

"confirm": ["confirm"],

"rwe": ["rwe"],

"world": ["world"],

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"faster aspart": ["faster aspart"],

"onset studies": ["onset studies"],

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"children": ["children"],

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"lead-2": ["lead-2"],

"lead-3": ["lead-3"],

"lead-4": ["lead-4"],

"lead-5": ["lead-5"],

"lead-6": ["lead-6"],

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"pratley": ["pratley"],

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"hemophilia": ["hemophilia"],

"3rd edition": ["3rd edition"],

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"conclude": ["conclude"],

"hypo": ["hypo"],

"u300": ["u300"],

"excursion": ["excursion"],

"kapitza": ["kapitza"],

"response": ["response"],

"poster": ["poster"],

"phase 2": ["phase 2"],

"o'neil": ["o'neil"],

"dose-finding": ["dose-finding","dose finding"],

"dose-ranging": ["dose-ranging","dose ranging"],

"exposure": ["exposure"],

"pharmacokinetic": ["pharmacokinetic"],

"dose-response": ["dose-response"],

"sustain": ["sustain"],

"gilead": ["gilead"],

"cilofexor": ["cilofexor"],

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"2022": ["2022"],

"nash": ["nash"],

"nafld": ["nafld"],

"non-alcoholic": ["non-alcoholic"],

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"fatty liver": ["fatty liver"],

"scale": ["scale"],

"real 1": ["real 1"],

"treatment-naive": ["treatment-naive"],

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"real 4": ["real 4"],

"ghd": ["ghd"],

"pediatric ghd": ["pediatric ghd"],

"weekly": ["weekly"],

"pivotal": ["pivotal"],

"ibt": ["ibt","intensive behavior therapy"],

"cms": ["cms"],

"phase 3b": ["phase 3b"],

"step 5": ["step 5"],

"long term": ["long term"],

"2 year": ["2 year"],

"104 weeks": ["104 weeks"],

"sustained": ["sustained"],

"step 8": ["step 8"],

"monotherapy": ["monotherapy"],

"sustain 10": ["sustain 10"],

"sustain 2": ["sustain 2"],

"sustain 3": ["sustain 3"],

"glp-1 ra": ["glp-1 ra"],

"sglt-2; canagliflozin": ["sglt-2; canagliflozin"],

"invokana": ["invokana"],

"sglt-2": ["sglt-2"],

"add": ["add"],

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"dual iii": ["dual iii"],

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"insulin naive": ["insulin naive"],

"9": ["9"],

"dual v": ["dual v"],

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"full": ["full"],

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"lead": ["lead"],

"postmeal": ["postmeal"],

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"insulin pump": ["insulin pump"],

"csii": ["csii"],

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"onset 5": ["onset 5"],

"insulin aspart": ["insulin aspart"],

"pioneer": ["pioneer"],

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"pioneer 3": ["pioneer 3","p3"],

"pioneer 4": ["pioneer 4","p4"],

"pioneer 5": ["pioneer 5","p5"],

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"esrd": ["esrd"],

"dialysis": ["dialysis"],

"gfr": ["gfr"],

"pioneer 6": ["pioneer 6","p6"],

"pioneer 7": ["pioneer 7","p7"],

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"study 3": ["study 3"],

"maintenance": ["maintenance"],

"study 1": ["study 1"],

"prediabetes": ["prediabetes"],

"3 years": ["3 years"],

"long-term": ["long-term"],

"sleep apnea": ["sleep apnea"],

"switch-2": ["switch-2"],

"custom": ["custom"],

"custom nash": ["custom nash"],

"custom letter": ["custom letter"],

"protamine": ["protamine"],

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"tsh": ["tsh"],

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"mood": ["mood"],

"devote cvd safety": ["devote cvd safety"],

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"devote blinding blinded": ["devote blinding blinded"],

"nocturnal": ["nocturnal"],

"severe": ["severe"],

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"nnt": ["nnt"],

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"cv benefit": ["cv benefit"],

"origin": ["origin"],

"dilute": ["dilute","diluent","dilution","diluting","dilutions","dilutes","diluents","dilluting"],

"trissel's": ["trissel's","trissel"],

"diluted": ["diluted"],

"compatible": ["compatible"],

"compatibility": ["compatibility"],

"disclaimer page": ["disclaimer page","disclaimer","disclaimer page"],

"stop": ["stopping","stop"],

"rule": ["rule"],

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"tolerability": ["tolerability"],

"efficacy": ["efficacy"],

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