Search Methods

The databases Medline (via Ovid), Embase (via Ovid), Cochrane Library, Emcare (via Ovid), Cinahl (via Ebscohost), PsycINFO (via Ebscohost), BNI (via ProQuest), Web of Science (Core Collection) and Scopus will be searched from inception to September, 2023 by VP. The search strategy was peer-reviewed by two librarian colleagues of VP using the Peer Review of Electronic Search Strategies (PRESS) checklist (McGowan et al., 2016), and evaluated against the PRISMA-S guidelines (Rethlefsen et al., 2021). The completed PRISMA-S checklist will be shown in the supplementary material. Databases will be searched by VP separately, rather than multiple databases being searched on the same platform. The search syntax was adapted for each database, and to account for variation between thesaurus terms/controlled vocabulary across each database. Results will be limited to English language in all databases. Results will be imported to Endnote 20 by VP for deduplication, using the method outlined by Bramer et al. (Bramer et al., 2016). The searches will all be rerun prior to submission in order to include any papers published between the initial searching, and submission for peer review. Dates when searches were run will be indicated in the results table. The search strategies used in each database are documented in full below.

**Medline**

(dementia or alzheimer* or "lewy bod*" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or Cadasil or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or Carasil or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living").ti,ab,kw. or Alzheimer Disease/ or Huntington Disease/ or Lewy Bodies/ or Frontotemporal Lobar Degeneration/ or corticobasal degeneration/ or dementia/ or neurocognitive disorders/ or neurodegenerative diseases/ or cerebral amyloid angiopathy/ or Cerebral Small Vessel Diseases/ or cerebrovascular disorders/ or independent living/

AND

("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopath* or "cerebrovascular damage" or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke).ti,ab,kw. or leukoaraiosis/ or Leukoencephalopathies/

AND

("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbo*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction").ti,ab,kw. or Artificial Intelligence/ or Machine Learning/ or Deep Learning/ or Neural networks, computer/ or support vector machine/ or Markov chains/ or cluster analysis/

AND
(Neuroimag* or "Magnetic Resonance Imag** or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density").ti,ab,kw. or Neuroimaging/ or Magnetic resonance imaging/ or Positron-emission tomography/ or angiography/ or Tomography, X-ray computed/ or diffusion magnetic resonance imaging/

Embase

(dementia or alzheimer* or "lewy bod** or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living").ti,ab,kw. or dementia/ or alzheimer disease/ or lewy body/ or frontotemporal dementia/ or progressive supranuclear palsy/ or huntington chorea/ or corticobasal degeneration/ or CADASIL/ or mild cognitive impairment/ or vascular parkinsonism/ or "disorders of higher cerebral function"/ or cerebrovascular disease/ or community dwelling person/ or independent living/

AND

("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "vichow robin space*" or microbleed* or microinfrac* or Leukoencephalopathy* or "cerebrovascular damage" or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke).ti,ab,kw. or white matter lesion/ or leukoaraiosis/ or lacunar infarction/ or perivascular space/ or lacunar stroke/ or Leukoencephalopathy/ or cerebrovascular accident/

AND

("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbor" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction").ti,ab,kw. or artificial intelligence/ or artificial neural network/ or deep learning/ or machine learning/ or ridge regression/ or "least absolute shrinkage and selection operator" or support vector machine/ or random forest/ or k nearest neighbor/ or markov chain/ or markov decision process/ or decision support system/ or dimensionality reduction/

AND

(Neuroimag* or "Magnetic Resonance Imag** or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density").ti,ab,kw. or Positron Emission Tomography/ or functional magnetic resonance imaging/ or neuroimaging/ or fluid attenuated inversion recovery
imaging/ or functional magnetic resonance imaging/ or arterial spin labelling/ or angiography/ or brain angiography/ or computer assisted tomography/ or diffusion weighted imaging/

Cochrane Library

(dementia or alzheimer* or "lewy bod*" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living"):ti,ab,kw. or MeSH descriptor: [Alzheimer Disease/ or MeSH descriptor: [Huntington Disease] this term only or MeSH descriptor: [Frontotemporal Lobar Degeneration] this term only or MeSH descriptor: [corticobasal degeneration] this term only or MeSH descriptor: [dementia] this term only or MeSH descriptor: [neurocognitive disorders] this term only or MeSH descriptor: [neurodegenerative diseases] this term only or MeSH descriptor: [cerebral amyloid angiopathy] this term only or MeSH descriptor: [Cerebral Small Vessel Diseases] this term only or MeSH descriptor: [cerebrovascular disorders] this term only or MeSH descriptor: [independent living] this term only

AND

("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopath* or "cerebrovascular damage" or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke):ti,ab,kw. or MeSH descriptor: [leukoaraiosis] this term only or MeSH descriptor: [Leukoencephalopathies] this term only

AND

("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neigbo*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction"):ti,ab,kw. or MeSH descriptor: [Artificial Intelligence] this term only or MeSH descriptor: [Machine Learning] this term only or MeSH descriptor: [Deep Learning] this term only or MeSH descriptor: [Neural networks, computer] this term only or MeSH descriptor: [support vector machine] this term only or MeSH descriptor: [Markov chains] this term only or MeSH descriptor: [cluster analysis] this term only

AND

(Neuroimag* or "Magnetic Resonance Imag*" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density"):ti,ab,kw. or MeSH descriptor: [Neuroimaging/ or MeSH descriptor: [Magnetic resonance imaging] this term only or MeSH descriptor: [Positron-emission tomography/ or MeSH descriptor: [angiography/ or MeSH descriptor: [Tomography, X-ray
computed] this term only or MeSH descriptor: [diffusion magnetic resonance imaging] this term only

Emcare

(dementia or alzheimer* or "lewy bod"* or "frontotemporal lobar degenerat* OR frontotemporal dementia* or "progressive supranuclear palsy* or huntington* or "corticobasal degeneration* or "vascular cognitive impairment* or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living*").ti,ab,kw. or Alzheimer Disease/ or Huntington Chorea/ or Lewy Body/ or Frontotemporal Dementia/ or corticobasal degeneration/ or dementia/ or degenerative diseases/ or CADASIL/ or mild cognitive impairment/ or progressive supranuclear palsy/ or vascular parkinsonism/ or vascular amyloidosis/ or cerebrovascular disease/ or community dwelling person or independent living/

AND

("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopath* or "cerebrovascular damage" or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke).ti,ab,kw. or white matter lesion/ or leukoaraiosis/ or lacunar infarction/ or perivascular space or Leukoencephalopathy/ or cerebrovascular accident/

AND

("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbo*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsuperv* or superv* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction*").ti,ab,kw. or Artificial Intelligence/ or artificial neural network/ or Machine Learning/ or ridge regression/ or Deep Learning/ or "least absolute shrinkage and selection operator"/ or support vector machine/ or random forest/ or k-nearest neighbor/ or markov chain/ or clustering algorithm/ or dimensionality reduction/

AND

(Neuroimag* or "Magnetic Resonance Imag*" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density*").ti,ab,kw. or Neuroimaging/ or functional magnetic resonance imaging/ or Positron emission tomography/ or angiography/ or computer assisted tomography/ or diffusion magnetic resonance imaging/ or arterial spin labelling/ or angiography/ or diffusion weighted imaging/ or

Cinahl
TI (dementia or alzheimer* or "lewy bod*" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living") or AB (dementia or alzheimer* or "lewy bod*" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living") or (MH "Alzheimer's Disease") or (MH "Huntington's Disease") or (MH "Lewy Body Disease") or (MH "Frontotemporal Lobar Degeneration") or (MH "Corticobasal Degeneration") or (MH "Dementia") or (MH "Neurodegenerative Diseases") or (MH "Mild Cognitive Impairment") or (MH "Supranuclear Palsy, Progressive") or (MH "CADASIL") or (MH "Cerebral Amyloid Angiopathy") or (MH "Cerebral Small Vessel Diseases") or (MH "Community Living")

AND

TI ("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopath* or "cerebrovascular damage" or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke) or AB ("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopath* or "cerebrovascular damage" or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke) or (MH "Stroke, Lacunar") or (MH "Stroke")

AND

TI ("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbo*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction") or AB ("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbo*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction") or (MH "Artificial Intelligence") or (MH "Neural Networks (Computer)") or (MH "Deep Learning") or (MH "Machine Learning") or (MH "Support Vector Machine") or (MH "Random Forest")
AND

TI (Neuroimag* or "Magnetic Resonance Imag*" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density") or AB (Neuroimag* or "Magnetic Resonance Imag*" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density") or (MH "Positron-Emission Tomography") or (MH "Magnetic Resonance Imaging") or (MH "Angiography") or (MH "Computed Tomography Angiography")

PsycInfo

TI (dementia or alzheimer* or "lewy bod*" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living") or AB (dementia or alzheimer* or "lewy bod*" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living") or DE "Alzheimer's Disease" or DE "Huntingtons Disease" or DE "Dementia with Lewy Bodies" or DE "Frontotemporal Lobar Degeneration" or DE "Corticobasal Degeneration" or DE "Dementia" or DE "Neurocognitive Disorders" or DE "Neurodegenerative Diseases" or DE "Mild Cognitive Impairment" or DE "Progressive Supranuclear Palsy"

AND

TI ("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopathy* or cerebrovascular damage* or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke) or AB ("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopathy* or cerebrovascular damage* or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke) or DE "Leukoaraiosis" or DE "Leukoencephalopathy" or DE "Cerebrovascular Accidents"

AND
TI ("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbor*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction") OR AB ("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbor*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction") or DE "Artificial Intelligence" or DE "Neural Networks" or DE "Deep Neural Networks" or DE "Machine Learning" or DE "Markov Chains" or DE "Cluster Analysis" or DE "Decision Support Systems"

AND

TI (Neuroimag* or "Magnetic Resonance Imaging*" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angio* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density") or AB (Neuroimag* or "Magnetic Resonance Imaging*" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angio* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density") or DE "Positron Emission Tomography" or DE "Functional Magnetic Resonance Imaging" or DE "Neuroimaging" or DE "Angiography"

BNI

TIAB (dementia or alzheimer* or "lewy bod*" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living") or MAINSUBJECT.EXACT("Alzheimer’s Disease") OR MAINSUBJECT.EXACT("Huntingtons Disease") OR MAINSUBJECT.EXACT("Dementia")

AND

TIAB ("white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopathy* or "cerebrovascular damage" or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke) or MAINSUBJECT.EXACT("Stroke")

AND
TIAB ("Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbo*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction") or MAINSUBJECT.EXACT("Artificial Intelligence") or MAINSUBJECT.EXACT("Neural networks") or MAINSUBJECT.EXACT("Deep learning") or MAINSUBJECT.EXACT("Machine learning") or MAINSUBJECT.EXACT("Support vector machines") or MAINSUBJECT.EXACT("Markov analysis") or MAINSUBJECT.EXACT("Decision support systems")

AND

TIAB (Neuroimag* or "Magnetic Resonance Imag**" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density") or MAINSUBJECT.EXACT("Neuroimaging") or MAINSUBJECT.EXACT("Magnetic resonance imaging")

Scopus

Title-Abs-Key (dementia or alzheimer* or "lewy bod**" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder**" or "cerebral amyloid angiopathy" or "small vessel disease**" or cerebrovascular disease** or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living")

AND

Title-Abs-Key ("white matter hyperintensit**" or "white matter disease**" or "white matter lesion**" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space**" or "virchow robin space**" or microbleed* or microinfarct* or Leukoencephalopath* or cerebrovascular damage* or haemorrhag* or hemorrhag* or cerebrovascular accident* or stroke)

AND

Title-Abs-Key ("Artificial Intelligence" or "neural network**" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine**" or "random forest**" or "reinforcement learning" or boost* or "nearest-neighbo*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system**" or automl or ensemble or unsupervi* or supervi* or "semi-supervi**" or "weakly supervi**" or "dimensionality reduction")

AND

Title-Abs-Key (Neuroimag* or "Magnetic Resonance Imag**" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density")
Web of Science

TS=(dementia or alzheimer* or "lewy bod*" or "frontotemporal lobar degenerat* OR frontotemporal dementia" or "progressive supranuclear palsy" or huntington* or "corticobasal degeneration" or "vascular cognitive impairment" or "Cerebral Autosomal Dominant Arteriopathy with Subcortical Infarcts and Leukoencephalopathy" or CADASIL or "Cerebral autosomal recessive arteriopathy with subcortical infarcts and leukoencephalopathy" or CARASIL or "mild cognitive impairment" or "vascular parkinsonism" or "neurocognitive disorder*" or "cerebral amyloid angiopathy" or "small vessel disease*" or "cerebrovascular disease*" or "cerebrovascular damage" or "population-based" or "community-based" or "community-dwelling" or "independent living") AND TS=('white matter hyperintensit*" or "white matter disease*" or "white matter lesion*" or leukoaraiosis* or lacune* or "lacunar infarct*" or "small subcortical infarct*" or "perivascular space*" or "virchow robin space*" or microbleed* or microinfarct* or Leukoencephalopath* or "cerebrovascular damage" or haemorrhag* or hemorrhag* or "cerebrovascular accident" or stroke) AND TS=('Artificial Intelligence" or "neural network*" or "deep learning" or "machine learning" or "computer reasoning" or "machine intelligence" or "ridge regression" or "least absolute shrinkage and selection operator" or LASSO or "elastic net" or classifier or "support vector machine*" or "random forest*" or "reinforcement learning" or boost* or "nearest-neighbo*" or markov or clustering or "cluster analysis" or convolution or classification or "decision support system*" or automl or ensemble or unsupervi* or supervi* or "semi-supervi*" or "weakly supervi*" or "dimensionality reduction") AND TS=('Neuroimag* or "Magnetic Resonance Imag*" or "Positron Emission Tomography" or "structural imaging" or "fluid attenuated inversion recovery" or "functional imaging" or "arterial spin labelling" or "dynamic imaging" or "DCE-MRI" or angiograph* or "computed tomography" or "CT perfusion" or "diffusion weighted imaging" or "proton density")

References

