

Restricted Technical Architecture Overview from Governed Hybrid Neuro-Symbolic Medical Artificial Intelligence for Clinical Decision Support (CDSS) (5,010 Curated Entries)

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| +---raw

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| \---audit

+---models

| +---checkpoints

| \---tokenizer

+---scripts

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+---src

| +---api

| | +---routes

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| +---imaging_preprocessing

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| | | | +---LSX

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|   |   |   +---Jacobi
|   |   |   +---KLUSupport
|   |   |   +---LU
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| | | | | | +---resolver
| | | | | | +---dns
| | | | | | +---c_ares
| | | | | | +---event_engine
| | | | | | \---native
| | | | | | +---fake
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| | | | | | +---server
| | | | | | +---service_config
| | | | | | +---telemetry
| | | | | | +---tsi
| | | | | | +---alts
| | | | | | +---crypt
| | | | | | +---frame_protector
| | | | | | +---handshaker
| | | | | | \---zero_copy_frame_protector
| | | | | | \---ssl
| | | | | | +---key_logging
| | | | | | \---session_cache
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| | | | | +---server
| | | | | \---health
| | | | | \---thread_manager
| | | | | \---proto
| | | | | \---grpc
| | | | | +---gcp
| | | | | +---health
| | | | | | \---v1
| | | | | +---lb
| | | | | | \---v1
| | | | | \---lookup
| | | | | \---v1
| | | | \---third_party
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| | | | | \---include
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| | | +---com_google_source_code_re2
| | | | +---re2
| | | | \---util
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| | | | \---google
| | | | +---api
| | | | | \---expr
| | | | | \---v1alpha1
| | | | \---rpc
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| | | | | \---utf8_range
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| | | | | +---utf8_range
| | | | | \---utf8_validity
| | | | \---upb
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| | | | +---hash

| | | | +---json
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| | | | +---mem
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| | | | +---mini_table
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| | | | +---vquic
| | | | +---vssh
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| | | | | \---v3
| | | | +---annotations
| | | | +---config
| | | | | +---accesslog
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| | | | | +---bootstrap
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| | | | | +---cluster
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| | | | | +---common
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| | | | | +---core
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| | | | | | \---v3
| | | | | +---metrics
| | | | | | \---v3
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| | | | | | \---v3
| | | | | +---rbac

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| | | | | | +---route
| | | | | | \---v3
| | | | | | +---tap
| | | | | | \---v3
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| | | | | | \---v3
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| | | | | | | +---router
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| | | | | | +---http
| | | | | | \---stateful_session
| | | | | | \---cookie
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| | | | | +---service
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| | | | | | \---v3
| | | | | +---metadata
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| | | | | +---tracing
| | | | | | \---v3
| | | | | \---v3

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| | | +---farmhash_archive
| | | | \---src
| | | +---flatbuffers
| | | +---gemmlowp
| | | | +---fixedpoint
| | | | +---internal
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| | | | +---profiling
| | | | \---public
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| | | | \---windows
| | | +---highwayhash
| | | | \---highwayhash
| | | +---icu
| | | | \---icu4c
| | | | \---source
| | | | \---common
| | | | \---unicode
| | | +---libjpeg_turbo
| | | | \---simd
| | | +---libwebp
| | | | +---sharpyuv
| | | | +---src
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| | | | | +---dsp
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| | | | \---src
| | | | \---webp
| | | +---llvm-project
```

```

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| | | | +---include
| | | | | \---mlir
| | | | | +---Analysis
| | | | | | +---AliasAnalysis
| | | | | | +---DataFlow
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| | | | | | +---AffineToStandard
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| | | | | | +---ArithCommon
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| | | | | | +---ComplexToLLVM
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| | | | | | +---ConvertToLLVM
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| | | | | | +---GPUCommon
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| | | | | | +---GPToROCDL
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| | | | | | +---MemRefToLLVM
| | | | | | +---PDLToPDLInterp
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| | | | | | +---VectorToLLVM
| | | | | \---VectorToSCF

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						+++IR
						+++Transforms
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						+++Index

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| | | | | | +---Pass
| | | | | | +---Rewrite
| | | | | | +---Support

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| | | | | | +---Target
| | | | | | | +---LLVM
| | | | | | | | +---NVVM
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| | | | | | | | +---LLVMIR
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| | | | | | | | +---LLVMIR
| | | | | | | | +---NVVM
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| | | | | | | | \---SPIRV
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| | | | | | +---Bytecode
| | | | | | | \---Writer
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| | | | | | +---Dialect
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| | | | | | | +---SparseTensor
| | | | | | | | \---IR
| | | | | | | | \---Detail
| | | | | | | \---SPIRV
| | | | | | | | \---IR

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| | | | | +---IR
| | | | | +---Pass
| | | | | +---Rewrite
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| | | | |   +---MLIRShapeCanonicalizationIncGen
| | | | |   \---SPIRVCanonicalizationIncGen
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| | | | |   \---cuda
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| | | | | | \---numpy
| | | | | | | \---random
| | | | | | \---python_include
| | | | | +---cpython
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| | | | +---ml_dtypes_py
| | | | | \---ml_dtypes
| | | | |   \---include
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| | | | |   \---nvshmem_config
| | | | |     \---third_party

```

```

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| | | | | \---oneapi
| | | | | \---dnnl
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| | | | +---common
| | | | | +---ittnotify
| | | | | | \---legacy
| | | | | \---spdlog
| | | | | +---details
| | | | | +---fmt
| | | | | | \---bundled
| | | | | \---sinks
| | | | +---cpu
| | | | | +---aarch64
| | | | | | +---brgemm
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| | | | | | +---matmul
| | | | | | +---shuffle
| | | | | | \---utils
| | | | | +---gemm
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| | | | | | +---f32
| | | | | | \---s8x8s32
| | | | | +---jit_utils
| | | | | | \---linux_perf
| | | | | +---matmul
| | | | | +---ppc64
| | | | | +---reorder
| | | | | +---rnn
| | | | | +---rv64
| | | | | +---s390x
| | | | | +---sycl
| | | | | \---x64
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| | | | | | \---capi
| | | | | | +---gemm
| | | | | | | +---amx
| | | | | | | +---bf16
| | | | | | | +---f32
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| | | | | | +---prelu
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| | | | | \---opencensus
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| | | | | \---xprof
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| | | | +---png

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| | | | | +---concurrency
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| | | | | +---differencer
| | | | | | \---google

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| | | | | \---protobuf
| | | | +---internal_visibility
| | | | | \---google
| | | | | \---protobuf
| | | | +---port
| | | | | \---google
| | | | | \---protobuf
| | | | +---protobuf
| | | | | \---google
| | | | | \---protobuf
| | | | +---protobuf_headers
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| | | | | \---protobuf
| | | | +---protobuf_layering_check_legacy
| | | | | \---google
| | | | | \---protobuf
| | | | +---protobuf_lite
| | | | | \---google
| | | | | \---protobuf
| | | | +---source_context_proto
| | | | | \---google
| | | | | \---protobuf
| | | | +---string_block
| | | | | \---google
| | | | | \---protobuf
| | | | +---struct_proto

```
| | | | | \---google
| | | | | \---protobuf
| | | | +---timestamp_proto
| | | | | \---google
| | | | | \---protobuf
| | | | +---type_proto
| | | | | \---google
| | | | | \---protobuf
| | | | +---varint_shuffle
| | | | | \---google
| | | | | \---protobuf
| | | | \---wrappers_proto
| | | | \---google
| | | | \---protobuf
| | | +---include
| | | | \---json
| | | +---ml_dtypes
| | | | \---include
| | | +---tensorflow
| | | | +---c
| | | | | +---eager
| | | | | +---experimental
| | | | | +---filesystem
| | | | | +---grappler
| | | | | +---next_pluggable_device
| | | | | +---pluggable_profiler
| | | | | \---stream_executor
| | | | \---kernels
| | | | +---cc
| | | | | +---client
| | | | | +---framework
| | | | | +---gradients
| | | | | +---ops
| | | | | \---saved_model
| | | | +---compiler
| | | | | +---jit
```

| | | | | \---kernels
| | | | | +---mlir
| | | | | +---lite
| | | | | | \---debug
| | | | | +---quantization
| | | | | | +---stablehlo
| | | | | | | +---passes
| | | | | | | \---bridge
| | | | | | | \---utils
| | | | | | \---tensorflow
| | | | | | \---calibrator
| | | | | +---tensorflow
| | | | | +---analysis
| | | | | +---ir
| | | | | | \---host_runtime
| | | | | +---transforms
| | | | | | +---host_runtime
| | | | | | \---sparsecore
| | | | | +---translate
| | | | | | \---tools
| | | | | | \---utils
| | | | | +---tf2xla
| | | | | +---api
| | | | | | +---v1
| | | | | | \---v2
| | | | | | +---internal
| | | | | | +---inference
| | | | | | +---passes
| | | | | | \---utils
| | | | | | \---transforms
| | | | | \---utils
| | | | | +---tf2xla
| | | | | +---cc
| | | | | | \---ops
| | | | | +---kernels
| | | | | \---lib

```

| | | | +---third_party
| | | | | \---mkl_dnn
| | | | | \---xla
| | | | | +---backends
| | | | | | +---cpu
| | | | | | | +---codegen
| | | | | | | | +---dot
| | | | | | | | +---elemental
| | | | | | | | \---emitters
| | | | | | | | +---ir
| | | | | | | | | \---virtual_includes
| | | | | | | | | +---xla_cpu_dialect_inc_gen
| | | | | | | | | +---xla_cpu_ops_inc_gen
| | | | | | | | | \---xla_cpu_types_inc_gen
| | | | | | | | \---transforms
| | | | | | | +---collectives
| | | | | | | +---runtime
| | | | | | | | \---xnnpack
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| | | | | | | +---codegen
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| | | | | | | | \---profiler
| | | | | | | | +---cpu
| | | | | | | | \---plugin
| | | | | +---c
| | | | | +---client
| | | | | +---codegen
| | | | | | +---emitters

```

```

| | | | | | +---ir
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| | | | | | \---collectives
| | | | | | +---ffi
| | | | | | \---api
| | | | | | +---hlo
| | | | | | +---analysis
| | | | | | +---builder
| | | | | | | \---lib
| | | | | | +---evaluator
| | | | | | +---ir
| | | | | | +---parser
| | | | | | +---pass
| | | | | | +---transforms
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| | | | | | | +---hlo_to_mhlo
| | | | | | | \---mhlo_to_hlo
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| | | | | | +---tools
| | | | | | | \---mlir_replay
| | | | | | | \---public
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| | | | | | | \---utils
| | | | | | +---mhlo

```

```

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| | | | | | | \---transforms
| | | | | | +---transforms
| | | | | | +---utils
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| | | | | | | | | \---transforms
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| | | | | | | | \---mhlo
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| | | | | | | +---hlo_dialect_registration
| | | | | | | | \---mhlo

```



```

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| | | | | | \---utils
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| | | | | | \---analysis
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| | | | | | \---IR
| | | | | +---stablehlo_extension_ops
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```

```

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| | | | | | \---xla_gpu
| | | | | +---profiling
| | | | | | \---proto
| | | | | +---python
| | | | | +---runtime
| | | | | | \---large_hlo_snapshot_serialization
| | | | | +---service
| | | | | +---cost_modelling
| | | | | +---cpu
| | | | | +---gpu
| | | | | | \---model
| | | | | +---graphcycles
| | | | | +---heap_simulator
| | | | | +---llvm_ir
| | | | | +---memory_space_assignment
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| | | | | | +---sdy_round_trip
| | | | | | \---stablehlo_round_trip

```

```

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| | | | | +---gpu
| | | | | +---host
| | | | | +---integrations
| | | | | +---platform
| | | | | | \---default
| | | | | +---rocm
| | | | | +---sycl
| | | | | \---tpu
| | | | +---tools
| | | | \---tsl
| | | |   +---c
| | | |   +---concurrency
| | | |   +---distributed_runtime
| | | |   | +---coordination
| | | |   | +---preemption
| | | |   | \---rpc
| | | |   |   \---coordination
| | | |   +---framework
| | | |   | +---contraction
| | | |   | +---convolution
| | | |   | +---fixedpoint
| | | |   | \---mlir
| | | |   +---lib
| | | |   | +---core
| | | |   | +---gtl
| | | |   | | \---subtle
| | | |   | +---hash
| | | |   | +---histogram
| | | |   | +---io
| | | |   | | \---snappy
| | | |   | +---math
| | | |   | +---monitoring
| | | |   | +---random
| | | |   | \---strings

```

```

| | | | +---platform
| | | | | +---cloud
| | | | | +---default
| | | | | +---profile_utils
| | | | | \---windows
| | | | +---profiler
| | | | | +---backends
| | | | | | \---cpu
| | | | | +---convert
| | | | | +---rpc
| | | | | | \---client
| | | | | | \---utils
| | | | +---protobuf
| | | | +---python
| | | | | \---lib
| | | | | | \---core
| | | | | \---util
| | | | | \---proto
| | | +---core
| | | | +---activity_watcher
| | | | +---common_runtime
| | | | | +---device
| | | | | +---eager
| | | | | +---gpu
| | | | | +---next_pluggable_device
| | | | | | \---c
| | | | | \---pluggable_device
| | | | +---config
| | | | +---data
| | | | | \---service
| | | | | \---snapshot
| | | | +---debug
| | | | +---distributed_runtime
| | | | +---coordination
| | | | +---eager
| | | | | \---rpc

```

| | | | | +---coordination
| | | | | \---eager
| | | | | +---example
| | | | | +---framework
| | | | | \---registration
| | | | | +---graph
| | | | | \---regularization
| | | | | +---grappler
| | | | | +---clusters
| | | | | +---costs
| | | | | +---inputs
| | | | | +---optimizers
| | | | | | \---data
| | | | | +---utils
| | | | | \---verifiers
| | | | | +---ir
| | | | | +---importexport
| | | | | +---types
| | | | | \---utils
| | | | | +---kernels
| | | | | +---batching_util
| | | | | +---data
| | | | | | \---experimental
| | | | | | \---sql
| | | | | +---image
| | | | | +---linalg
| | | | | +---mkl
| | | | | +---rnn
| | | | | +---sparse
| | | | | +---special_math
| | | | | \---uniform_quant_ops
| | | | | +---lib
| | | | | +---bfloat16
| | | | | +---core
| | | | | +---db
| | | | | +---gif

| | | | | +---gtl
| | | | | \---subtle
| | | | | +---hash
| | | | | +---histogram
| | | | | +---io
| | | | | +---jpeg
| | | | | +---llvm_rtti
| | | | | +---math
| | | | | +---monitoring
| | | | | +---png
| | | | | +---random
| | | | | +---strings
| | | | | +---wav
| | | | | \---webp
| | | | | +---nccl
| | | | | +---platform
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| | | | | +---profiler
| | | | | +---convert
| | | | | +---lib
| | | | | +---rpc
| | | | | | \---client
| | | | | \---utils
| | | | | +---protobuf
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| | | | | +---public
| | | | | +---summary
| | | | | +---tfrt
| | | | | \---common
| | | | | +---tpu
| | | | | +---kernels
| | | | | \---ops
| | | | | +---transforms
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| | | | | +---consolidate_attrs
| | | | | +---constant_folding

```

| | | | | +---const_dedupe_hoist
| | | | | +---cse
| | | | | +---drop_unregistered_attribute
| | | | | +---eliminate_passthrough_iter_args
| | | | | +---functional_to_region
| | | | | +---func_to_graph
| | | | | +---graph_compactor
| | | | | +---graph_to_func
| | | | | +---legacy_call
| | | | | +---region_to_functional
| | | | | +---remapper
| | | | | \---pdll
| | | | | +---shape_inference
| | | | | +---toposort
| | | | | \---utils
| | | | | \---pdll
| | | | | \---util
| | | | | +---ctc
| | | | | +---proto
| | | | | +---quantization
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| | | | | \---external
| | | | | +---ducc
| | | | | | \---google
| | | | | \---ml_dtypes_py
| | | | | \---ml_dtypes
| | | | | \---include
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| | | | | +---kernels
| | | | | \---shim
| | | | | \---toco
| | | | +---python
| | | | | +---client
| | | | | +---eager

```

```

| | | | +---framework
| | | | +---grappler
| | | | +---lib
| | | | \---core
| | | | \---util
| | | \---tsl
| | |   +---platform
| | |   \---profiler
| | |     +---lib
| | |     \---protobuf
| | +---third_party
| | | +---fft2d
| | | +---gpu
| | | | \---cuda
| | | | \---icu
| | | | \---data
| | | +---tsl
| | | | +---platform
| | | | \---profiler
| | | |   +---lib
| | | |   \---protobuf
| | | +---unsupported
| | | | \---Eigen
| | | |   +---CXX11
| | | | | \---src
| | | | |   +---Tensor
| | | | |   +---TensorSymmetry
| | | | | | \---util
| | | | | | \---util
| | | | | \---src
| | | |   +---AutoDiff
| | | |   +---BVH
| | | |   +---Eigenvalues
| | | |   +---EulerAngles
| | | |   +---FFT
| | | |   +---IterativeSolvers

```

```

| | | +---KroneckerProduct
| | | +---LevenbergMarquardt
| | | +---MatrixFunctions
| | | +---NonLinearOptimization
| | | +---NumericalDiff
| | | +---Polynomials
| | | +---SparseExtra
| | | +---SpecialFunctions
| | | | \---arch
| | | | +---AVX
| | | | +---AVX512
| | | | +---GPU
| | | | \---NEON
| | | \---Splines
| | | \---xla
| | +---backends
| | | +---cpu
| | | | +---codegen
| | | | | +---dot
| | | | | +---elemental
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| | | | +---runtime
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| | | | | \---_virtual_includes

```

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| | | | \---api
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| | | | | \---lib
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| | | | +---ir
| | | | +---parser
| | | | +---pass
| | | | +---transforms
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```

```

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| | | | \---utils
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| | | | | | \---transforms
| | | | | | \---transforms
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| | | | +---convert_op_folder

```

```

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| | | | | | \---utils
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```

```

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