parakeet_rs

Struct Nemotron

```
pub struct Nemotron { /* private fields */ }
```

Nemotron streaming ASR model (0.6B parameters). We dont apply mel normalization unlike others...

Implementations

impl Nemotron

```
pub fn from_pretrained<P: AsRef<Path>>(
    path: P,
    exec_config: Option<ExecutionConfig>,
) -> Result<Self>
```

Load Nemotron model from directory.

Required files:

- encoder.onnx + encoder.onnx.data
- decoder_joint.onnx
- tokenizer.model

Examples found in repository ?

```
            duration / elapsed.as_secs_f32()
        );

        Ok(())
    }
```

examples/streaming.rs (line 116)

```
pub fn reset(&mut self)
```

Reset all state for new utterance

```
pub fn get_transcript(&self) -> String
```

Get the full accumulated transcript

Examples found in repository

```
        duration / elapsed.as_secs_f32()
    );

    Ok(())
}
```

examples/streaming.rs (line 145)

```
pub fn transcribe_file<P: AsRef<Path>>(
    &mut self,
    audio_path: P,
) -> Result<String>
```

note that, offline transcription for testing/debugging and for some curious ppl :-). with following function too (transcribe_audio)

```
pub fn transcribe_audio(&mut self, audio: &[f32]) -> Result<String>
```

Transcribe audio samples (non-streaming)

```
pub fn transcribe_chunk(&mut self, audio_chunk: &[f32]) -> Result<String>
```

Stream transcribe a chunk of audio (call repeatedly for real-time).

This buffers raw audio and computes mel spectrograms over the full buffer to avoid edge effects at chunk boundaries.

Examples found in repository

```
        duration / elapsed.as_secs_f32()
    );

    Ok(())
}
```

examples/streaming.rs (line 130)

Auto Trait Implementations

```
impl Freeze for Nemotron
```

```
impl !RefUnwindSafe for Nemotron
impl Send for Nemotron
```

```
impl Sync for Nemotron
```

```
impl Unpin for Nemotron
```

```
impl !UnwindSafe for Nemotron
```

Blanket Implementations

```
impl<T> Any for T
where
    T: 'static + ?Sized,
```

```
fn type_id(&self) -> TypeId
```

Gets the `TypeId` of `self`. Read more

```
impl<T> Borrow<T> for T
where
    T: ?Sized,
```

```
fn borrow(&self) -> &T
```

Immutably borrows from an owned value. Read more

```
impl<T> BorrowMut<T> for T
where
    T: ?Sized,
```

```
fn borrow_mut(&mut self) -> &mut T
```

Mutably borrows from an owned value. Read more

```
impl<T> From<T> for T
```

```
fn from(t: T) -> T
```

Returns the argument unchanged.

```
impl<T> Instrument for T
```

```
fn instrument(self, span: Span) -> Instrumented<Self>
```

Instruments this type with the provided `Span`, returning an `Instrumented` wrapper. Read more

```
fn in_current_span(self) -> Instrumented<Self>
```

Instruments this type with the `current Span`, returning an `Instrumented` wrapper. Read more

impl<T, U> Into<U> for T

```
where
    U: From<T>,
```

```
fn into(self) -> U
```

Calls `U::from(self)`.

That is, this conversion is whatever the implementation of `From<T> for U` chooses to do.

impl<T> IntoEither for T

```
fn into_either(self, into_left: bool) -> Either<Self, Self>
```

Converts `self` into a `Left` variant of `Either<Self, Self>` if `into_left` is `true`. Converts `self` into a `Right` variant of `Either<Self, Self>` otherwise. Read more

```
fn into_either_with<F>(self, into_left: F) -> Either<Self, Self>
where
    F: FnOnce(&Self) -> bool,
```

Converts `self` into a `Left` variant of `Either<Self, Self>` if `into_left(&self)` returns `true`. Converts `self` into a `Right` variant of `Either<Self, Self>` otherwise. Read more

impl<T> Pointable for T

```
const ALIGN: usize
```

The alignment of pointer.

```
type Init = T
```

The type for initializers.

```
unsafe fn init(init: <T as Pointable>::Init) -> usize
```

Initializes a with the given initializer. Read more

```
unsafe fn deref<'a>(ptr: usize) -> &'a T
```

Dereferences the given pointer. Read more

```
unsafe fn deref_mut<'a>(ptr: usize) -> &'a mut T
```

Mutably dereferences the given pointer. Read more

```
unsafe fn drop(ptr: usize)
```

Drops the object pointed to by the given pointer. Read more

```
impl<T, U> TryFrom<U> for T
where
    U: Into<T>,
```

```
type Error = Infallible
```

The type returned in the event of a conversion error.

```
fn try_from(value: U) -> Result<T, <T as TryFrom<U>>::Error>
```

Performs the conversion.

```
impl<T, U> TryInto<U> for T
where
    U: TryFrom<T>,
```

```
type Error = <U as TryFrom<T>>::Error
```

The type returned in the event of a conversion error.

```
fn try_into(self) -> Result<U, <U as TryFrom<T>>::Error>
```

Performs the conversion.

```
impl<V, T> VZip<V> for T
where
    V: MultiLane<T>,
```

```
fn vzip(self) -> V
```

```
impl<T> WithSubscriber for T
```

```
fn with_subscriber<S>(self, subscriber: S) -> WithDispatch<Self>
where
    S: Into<Dispatch>,
```

Attaches the provided `Subscriber` to this type, returning a `WithDispatch` wrapper. Read more

```
fn with_current_subscriber(self) -> WithDispatch<Self>
```

Attaches the current default `Subscriber` to this type, returning a `WithDispatch` wrapper. Read more