

summarize_with_llama_cpp

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1 Class Index

1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

ArgumentParser A simple command line argument parser	2
model_wrapper::Model Model wrapper	9
ArgumentParser::Option Represents a command line option with its properties and value	12

2 File Index

2.1 File List

Here is a list of all documented files with brief descriptions:

include/argument_parser.h	13
include/model.h	17

3 Class Documentation

3.1 ArgumentParser Class Reference

A simple command line argument parser.

```
#include "argument_parser.h"
```

Classes

- struct [Option](#)
Represents a command line option with its properties and value.

Public Member Functions

- [ArgumentParser](#) & [add_flag](#) (const std::string &name, const std::string &short_name, const std::string &description, bool is_mandatory)
Add a flag option.
- template<typename T >
[ArgumentParser](#) & [add_option](#) (const std::string &name, const std::string &short_name, const std::string &description, bool is_mandatory, T default_val=T{})
Add an option that takes a value.
- [ArgumentParser](#) (std::string description="")
Construct a new Argument Parser.
- template<typename T >
T [get_option](#) (const std::string &name) const
Get the value of an option.
- const std::vector< std::string > & [get_positional](#) () const
Get positional arguments.
- bool [is_provided](#) (const std::string &name) const
Check if an option was provided on the command line.
- void [parse](#) (int argc, char **argv)
Parse command line arguments.
- void [print_help](#) () const
Print help message to stdout.

Private Member Functions

- void [collect_remaining_positional](#) (std::size_t start_index, int argc, char **argv)
Add all remaining arguments as positional.
- std::string [generate_help](#) () const
Generates help text for command line usage.
- bool [is_help_requested](#) () const
Check if help was requested.
- void [process_arguments](#) (int argc, char **argv)
Process all command line arguments.
- void [process_option](#) (const std::string &name, int ¤t_index, int argc, char **argv)
Process a single option from the command line.
- template<typename T >
[ArgumentParser](#) & [register_option](#) (const std::string &name, const std::string &short_name, const std::string &description, bool is_flag, bool is_mandatory, T default_val)
Internal helper method to register any type of option.
- void [validate_option_name](#) (const std::string &name, bool is_short=false) const
Validate option names and check for duplicates.
- void [validate_required_options](#) () const
Validate that all required options were provided.

Static Private Member Functions

- template<typename T >
static std::any [convert](#) (const std::string &val)
Converts a string argument to a typed value.

Private Attributes

- std::unordered_map< std::string, [Option](#) > **options**
Maps long option names to their corresponding [Option](#) objects.
- std::vector< std::string > **positional**
Stores positional command line arguments (not associated with any option)
- std::string **program_description**
Description of the program to show in help message.
- std::string **program_name**
Name of the program (extracted from argv[0])
- std::unordered_map< std::string, std::string > **short_to_long**
Maps short option names to their corresponding long option names for quick lookup.

3.1.1 Detailed Description

A simple command line argument parser.

3.1.2 Constructor & Destructor Documentation

3.1.2.1 [ArgumentParser\(\)](#) `ArgumentParser::ArgumentParser (std::string description = "") [explicit]`

Construct a new Argument Parser.

Parameters

<i>description</i>	Program description text
--------------------	--------------------------

3.1.3 Member Function Documentation

3.1.3.1 add_flag() `ArgumentParser` & `ArgumentParser::add_flag` (
 const std::string & *name*,
 const std::string & *short_name*,
 const std::string & *description*,
 bool *is_mandatory*)

Add a flag option.

Parameters

<i>name</i>	Long option name
<i>short_name</i>	Short option name (single character)
<i>description</i>	Option description
<i>is_mandatory</i>	Whether the option is required

Returns

Reference to this parser for method chaining

3.1.3.2 add_option() `template<typename T >`
`ArgumentParser` & `ArgumentParser::add_option` (
 const std::string & *name*,
 const std::string & *short_name*,
 const std::string & *description*,
 bool *is_mandatory*,
 T *default_val* = T{}) `[inline]`

Add an option that takes a value.

Template Parameters

<i>T</i>	Type of the option value
----------	--------------------------

Parameters

<i>name</i>	Long option name
<i>short_name</i>	Short option name (single character)
<i>description</i>	Option description

Parameters

<i>is_mandatory</i>	Whether the option is required
<i>default_val</i>	Default value if not provided

Returns

Reference to this parser for method chaining

3.1.3.3 collect_remaining_positional() `void ArgumentParser::collect_remaining_positional (`
 `std::size_t start_index,`
 `int argc,`
 `char ** argv) [private]`

Add all remaining arguments as positional.

Parameters

<i>start_index</i>	Starting index in argv
<i>argc</i>	Argument count
<i>argv</i>	Argument array

3.1.3.4 convert() `template<typename T >`
`static std::any ArgumentParser::convert (`
 `const std::string & val) [inline], [static], [private]`

Converts a string argument to a typed value.

Template Parameters

<i>T</i>	The target type to convert to (string, bool, int, float, double)
----------	--

Parameters

<i>val</i>	The string value to convert
------------	-----------------------------

Returns

`std::any` The converted value wrapped in `std::any`

Exceptions

<i>std::runtime_error</i>	If <i>T</i> is not one of the supported types
<i>std::invalid_argument</i>	If the string cannot be converted to the requested type
<i>std::out_of_range</i>	If the converted value would be out of range for the target type

3.1.3.5 generate_help() `std::string ArgumentParser::generate_help () const [private]`

Generates help text for command line usage.

Returns

Formatted help string

Creates a help message showing program usage, description, and available options in a readable format

3.1.3.6 get_option() `template<typename T >
T ArgumentParser::get_option (
 const std::string & name) const [inline]`

Get the value of an option.

Template Parameters

<i>T</i>	Type to cast the option value to
----------	----------------------------------

Parameters

<i>name</i>	Option name
-------------	-------------

Returns

The option value

Exceptions

<i>std::runtime_error</i>	if option doesn't exist
<i>std::bad_any_cast</i>	if type doesn't match

3.1.3.7 get_positional() `const std::vector< std::string > & ArgumentParser::get_positional ()
const`

Get positional arguments.

Returns

Vector of positional arguments

3.1.3.8 is_help_requested() `bool ArgumentParser::is_help_requested () const [private]`

Check if help was requested.

Returns

true if help option was provided

3.1.3.9 is_provided() `bool ArgumentParser::is_provided (`
`const std::string & name) const`

Check if an option was provided on the command line.

Parameters

<i>name</i>	Option name
-------------	-------------

Returns

true if the option was provided

3.1.3.10 parse() `void ArgumentParser::parse (`
`int argc,`
`char ** argv)`

Parse command line arguments.

Parameters

<i>argc</i>	Argument count
<i>argv</i>	Argument array

Exceptions

<code>std::runtime_error</code>	for parsing errors
---------------------------------	--------------------

3.1.3.11 process_arguments() `void ArgumentParser::process_arguments (`
`int argc,`
`char ** argv) [private]`

Process all command line arguments.

Parameters

<i>argc</i>	Argument count
<i>argv</i>	Argument array

3.1.3.12 process_option() `void ArgumentParser::process_option (`
`const std::string & name,`
`int & current_index,`
`int argc,`
`char ** argv) [private]`

Process a single option from the command line.

Parameters

<i>name</i>	The long name of the option being processed
<i>current_index</i>	Current index in argv array, may be updated if option consumes a value
<i>argc</i>	Number of command line arguments
<i>argv</i>	Array of command line arguments

Exceptions

<i>std::runtime_error</i>	If the option is unknown or value parsing fails
<i>std::runtime_error</i>	If a non-flag option is provided without a value

Handles both flag options (which don't require a value) and value options (which consume the next argument as their value). For value options, the index `current_index` is incremented to skip the value in the main parsing loop.

3.1.3.13 register_option() `template<typename T >`
`ArgumentParser & ArgumentParser::register_option (`
`const std::string & name,`
`const std::string & short_name,`
`const std::string & description,`
`bool is_flag,`
`bool is_mandatory,`
`T default_val) [inline], [private]`

Internal helper method to register any type of option.

Template Parameters

<i>T</i>	The type of the option value
----------	------------------------------

Parameters

<i>name</i>	Long option name
<i>short_name</i>	Short option name

Parameters

<i>description</i>	Option description
<i>is_flag</i>	Whether this option is a flag (no value)
<i>is_mandatory</i>	Whether this option is required
<i>default_val</i>	Default value

Returns

Reference to this parser for method chaining

3.1.3.14 validate_option_name() `void ArgumentParser::validate_option_name (const std::string & name, bool is_short = false) const [private]`

Validate option names and check for duplicates.

Parameters

<i>name</i>	The option name to validate
<i>is_short</i>	Whether this is a short option name

Exceptions

<i>std::invalid_argument</i>	if the name is invalid or already exists
------------------------------	--

3.1.3.15 validate_required_options() `void ArgumentParser::validate_required_options () const [private]`

Validate that all required options were provided.

Exceptions

<i>std::runtime_error</i>	if any mandatory option is missing
---------------------------	------------------------------------

The documentation for this class was generated from the following file:

- include/argument_parser.h

3.2 model_wrapper::Model Class Reference

[Model](#) wrapper.

```
#include "model.h"
```

Public Member Functions

- void [generate_response](#) (const std::string &prompt, std::ostream &out)
Generate a response from the prompt.
- std::string [get_formatted_prompt](#) (const std::vector< llama_chat_message > &messages)
Apply the chat template to the messages.
- [Model](#) (const std::string_view model_path, const float temperature, const int32_t number_of_gpu_layers, const std::size_t prediction_length)
Construct a new [Model](#) object.

Private Member Functions

- llama_context_ptr [create_context](#) (const std::size_t number_of_tokens)
Create the context.
- void [initialize_sampler](#) ()
Initialize the sampler.
- std::vector< llama_token > [tokenize_prompt](#) (const std::string &prompt)
Tokenize the prompt .

Private Attributes

- llama_model_ptr **m_model** {nullptr}
- const std::size_t **m_prediction_length**
- llama_sampler_ptr **m_sampler** {nullptr}
- const float **m_temperature**
- const llama_vocab * **m_vocab**

3.2.1 Detailed Description

[Model](#) wrapper.

3.2.2 Constructor & Destructor Documentation

3.2.2.1 Model() `model_wrapper::Model::Model (`
 const std::string_view model_path,
 const float temperature,
 const int32_t number_of_gpu_layers,
 const std::size_t prediction_length)

Construct a new [Model](#) object.

Parameters

<i>model_path</i>	The path to the model file in GGUF format
<i>temperature</i>	The temperature
<i>number_of_gpu_layers</i>	The number of GPU layers to use
<i>prediction_length</i>	The maximum number of tokens to predict

Exceptions

<code>std::runtime_error</code>	if the model cannot be loaded
---------------------------------	-------------------------------

3.2.3 Member Function Documentation

3.2.3.1 create_context() `llama_context_ptr model_wrapper::Model::create_context (`
`const std::size_t number_of_tokens) [private]`

Create the context.

The context size is determined as `number_of_tokens + m_prediction_length`.

Parameters

<code>number_of_tokens</code>	The number of tokens
-------------------------------	----------------------

Returns

The context pointer

Exceptions

<code>std::runtime_error</code>	if the context cannot be created
---------------------------------	----------------------------------

3.2.3.2 generate_response() `void model_wrapper::Model::generate_response (`
`const std::string & prompt,`
`std::ostream & out)`

Generate a response from the prompt.

The model generates a response to the prompt by sampling tokens and this function writes to `out` each token

Parameters

<code>prompt</code>	The prompt to respond to
<code>out</code>	The output stream to write the response to

Exceptions

<code>std::runtime_error</code>	if the generation fails
---------------------------------	-------------------------

3.2.3.3 get_formatted_prompt() `std::string model_wrapper::Model::get_formatted_prompt (const std::vector< llama_chat_message > & messages)`

Apply the chat template to the messages.

Parameters

<i>messages</i>	The messages to format
-----------------	------------------------

Returns

The formatted prompt

Exceptions

<i>std::runtime_error</i>	if the chat template cannot be applied
---------------------------	--

3.2.3.4 tokenize_prompt() `std::vector< llama_token > model_wrapper::Model::tokenize_prompt (const std::string & prompt) [private]`

Tokenize the prompt .

Returns

The tokens

Exceptions

<i>std::runtime_error</i>	if the prompt cannot be tokenized
---------------------------	-----------------------------------

The documentation for this class was generated from the following file:

- include/model.h

3.3 ArgumentParser::Option Struct Reference

Represents a command line option with its properties and value.

Public Attributes

- `std::function< std::any(const std::string &)>` **converter**

Converter function to parse string argument into typed value.

- **std::string `description`**
Description text shown in help message.
- **bool `is_flag`**
True if option is a flag (doesn't take a value)
- **bool `is_mandatory`**
True if option is required/mandatory.
- **bool `is_provided` {false}**
True if option was provided on command line.
- **std::string `name`**
Long name of the option without leading dashes.
- **std::string `short_name`**
Short name of the option (single character) without leading dash.
- **std::any `value`**
The option's value (type-erased)

3.3.1 Detailed Description

Represents a command line option with its properties and value.

The documentation for this struct was generated from the following file:

- include/argument_parser.h

4 File Documentation

4.1 argument_parser.h

```

1 //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
2 // File:   argument_parser.h
3 //
4 // License: MIT
5 //
6 // Copyright (C) 2025 Onur Ozuduru
7 //
8 // Follow Me!
9 //   github:  github.com/onurozuduru
10 //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
11
12 #include <any>
13 #include <functional>
14 #include <stdexcept>
15 #include <string>
16 #include <type_traits>
17 #include <unordered_map>
18 #include <vector>
19
20 /**
21  * \brief A simple command line argument parser
22  */
23 class ArgumentParser {
24 private:
25     /**
26      * \brief Represents a command line option with its properties and value
27      */
28     struct Option {
29         /**
30          * \brief Long name of the option without leading dashes
31          */
32         std::string name;
33
34         /** \brief Short name of the option (single character) without leading dash
35          */

```

```

36     std::string short_name;
37
38     /**
39  * \brief Description text shown in help message
40  */
41     std::string description;
42
43     /**
44  * \brief True if option is a flag (doesn't take a value)
45  */
46     bool is_flag;
47
48     /**
49  * \brief True if option is required/mandatory
50  */
51     bool is_mandatory;
52
53     /**
54  * \brief The option's value (type-erased)
55  */
56     std::any value;
57
58     /**
59  * \brief Converter function to parse string argument into typed value
60  */
61     std::function<std::any(const std::string &)> converter;
62
63     /**
64  * \brief True if option was provided on command line
65  */
66     bool is_provided{false};
67 };
68
69 /**
70  * \brief Maps long option names to their corresponding Option objects
71  */
72     std::unordered_map<std::string, Option> options;
73
74     /**
75  * \brief Maps short option names to their corresponding long option names
76  * for quick lookup
77  */
78     std::unordered_map<std::string, std::string> short_to_long;
79
80     /**
81  * \brief Stores positional command line arguments (not associated with any
82  * option)
83  */
84     std::vector<std::string> positional;
85
86     /**
87  * \brief Name of the program (extracted from argv[0])
88  */
89     std::string program_name;
90
91     /**
92  * \brief Description of the program to show in help message
93  */
94     std::string program_description;
95
96     /**
97  * \brief Converts a string argument to a typed value
98  *
99  * \tparam T The target type to convert to (string, bool, int, float, double)
100  * \param val The string value to convert
101  * \return std::any The converted value wrapped in std::any
102  * \throws std::runtime_error If T is not one of the supported types
103  * \throws std::invalid_argument If the string cannot be converted to the
104  * requested type
105  * \throws std::out_of_range If the converted value would be out of range for
106  * the target type
107  */
108     template <typename T> static std::any convert(const std::string &val) {
109         if constexpr (std::is_same_v<T, std::string>) {
110             return val;
111         } else if constexpr (std::is_same_v<T, bool>) {
112             return (val == "true" || val == "1" || val == "yes");
113         } else if constexpr (std::is_same_v<T, int>) {
114             return std::stoi(val);
115         } else if constexpr (std::is_same_v<T, float>) {
116             return std::stof(val);
117         } else if constexpr (std::is_same_v<T, double>) {
118             return std::stod(val);
119         } else {
120             throw std::runtime_error("Unsupported type conversion");
121         }
122     }

```

```

123
124 /**
125 * \brief Process a single option from the command line
126 *
127 * \param name The long name of the option being processed
128 * \param current_index Current index in argv array, may be updated if option
129 * consumes a value
130 * \param argc Number of command line arguments
131 * \param argv Array of command line arguments
132 *
133 * \throws std::runtime_error If the option is unknown or value parsing fails
134 * \throws std::runtime_error If a non-flag option is provided without a value
135 *
136 * \details Handles both flag options (which don't require a value) and value
137 * options (which consume the next argument as their value). For value
138 * options, the index current_index is incremented to skip the value in the
139 * main parsing loop.
140 */
141 void process_option(const std::string &name, int &current_index, int argc,
142                    char **argv);
143
144 /**
145 * \brief Generates help text for command line usage
146 * \return Formatted help string
147 *
148 * \details Creates a help message showing program usage, description,
149 *          and available options in a readable format
150 */
151 std::string generate_help() const;
152
153 /**
154 * \brief Validate option names and check for duplicates
155 * \param name The option name to validate
156 * \param is_short Whether this is a short option name
157 * \throws std::invalid_argument if the name is invalid or already exists
158 */
159 void validate_option_name(const std::string &name,
160                           bool is_short = false) const;
161
162 /**
163 * \brief Internal helper method to register any type of option
164 *
165 * \tparam T The type of the option value
166 * \param name Long option name
167 * \param short_name Short option name
168 * \param description Option description
169 * \param is_flag Whether this option is a flag (no value)
170 * \param is_mandatory Whether this option is required
171 * \param default_val Default value
172 * \return Reference to this parser for method chaining
173 */
174 template <typename T>
175 ArgumentParser &register_option(const std::string &name,
176                                const std::string &short_name,
177                                const std::string &description, bool is_flag,
178                                bool is_mandatory, T default_val) {
179     validate_option_name(name);
180     if (!short_name.empty()) {
181         validate_option_name(short_name, true);
182     }
183
184     Option opt{name, short_name, description, is_flag,
185                is_mandatory, default_val, convert<T>};
186     options[name] = opt;
187     if (!short_name.empty()) {
188         short_to_long[short_name] = name;
189     }
190     return *this;
191 }
192
193 /**
194 * \brief Process all command line arguments
195 * \param argc Argument count
196 * \param argv Argument array
197 */
198 void process_arguments(int argc, char **argv);
199
200 /**
201 * \brief Add all remaining arguments as positional
202 * \param start_index Starting index in argv
203 * \param argc Argument count
204 * \param argv Argument array
205 */
206 void collect_remaining_positional(std::size_t start_index, int argc,
207                                   char **argv);
208
209 /**

```



```

210 * \brief Check if help was requested
211 * \return true if help option was provided
212 */
213 bool is_help_requested() const;
214
215 /**
216 * \brief Validate that all required options were provided
217 * \throws std::runtime_error if any mandatory option is missing
218 */
219 void validate_required_options() const;
220
221 public:
222 /**
223 * \brief Construct a new Argument Parser
224 * \param description Program description text
225 */
226 explicit ArgumentParser(std::string description = "");
227
228 /**
229 * \brief Add an option that takes a value
230 * \tparam T Type of the option value
231 * \param name Long option name
232 * \param short_name Short option name (single character)
233 * \param description Option description
234 * \param is_mandatory Whether the option is required
235 * \param default_val Default value if not provided
236 * \return Reference to this parser for method chaining
237 */
238 template <typename T>
239 ArgumentParser &add_option(const std::string &name,
240                           const std::string &short_name,
241                           const std::string &description, bool is_mandatory,
242                           T default_val = T{}) {
243     return register_option<T>(name, short_name, description, false,
244                             is_mandatory, default_val);
245 }
246
247 /**
248 * \brief Add a flag option
249 * \param name Long option name
250 * \param short_name Short option name (single character)
251 * \param description Option description
252 * \param is_mandatory Whether the option is required
253 * \return Reference to this parser for method chaining
254 */
255 ArgumentParser &add_flag(const std::string &name,
256                          const std::string &short_name,
257                          const std::string &description, bool is_mandatory);
258
259 /**
260 * \brief Parse command line arguments
261 * \param argc Argument count
262 * \param argv Argument array
263 * \throw std::runtime_error for parsing errors
264 */
265 void parse(int argc, char **argv);
266
267 /**
268 * \brief Get the value of an option
269 * \tparam T Type to cast the option value to
270 * \param name Option name
271 * \return The option value
272 * \throw std::runtime_error if option doesn't exist
273 * \throw std::bad_any_cast if type doesn't match
274 */
275 template <typename T> T get_option(const std::string &name) const {
276     if (!options.contains(name)) {
277         throw std::runtime_error("Option not registered: " + name);
278     }
279     return std::any_cast<T>(options.at(name).value);
280 }
281
282 /**
283 * \brief Check if an option was provided on the command line
284 * \param name Option name
285 * \return true if the option was provided
286 */
287 bool is_provided(const std::string &name) const;
288
289 /**
290 * \brief Get positional arguments
291 * \return Vector of positional arguments
292 */
293 const std::vector<std::string> &get_positional() const;
294
295 /**
296 */

```

```

297 * \brief Print help message to stdout
298 */
299 void print_help() const;
300 };

```

4.2 model.h

```

1 //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
2 // File: model.h
3 //
4 // License: MIT
5 //
6 // Copyright (C) 2025 Onur Ozuduru
7 //
8 // Follow Me!
9 // github: github.com/onurozuduru
10 //////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
11
12 #include "llama-cpp.h"
13 #include <ostream>
14 #include <string>
15 #include <vector>
16
17 namespace model_wrapper {
18 /**
19 * \brief Model wrapper
20 */
21 class Model {
22 private:
23     const float m_temperature;
24     const std::size_t m_prediction_length;
25
26     llama_model_ptr m_model{nullptr};
27     const llama_vocab *m_vocab;
28     llama_sampler_ptr m_sampler{nullptr};
29
30     /**
31     * \brief Tokenize the prompt
32     * \p
33     * \return The tokens
34     * \throw std::runtime_error if the prompt cannot be tokenized
35     */
36     std::vector<llama_token> tokenize_prompt(const std::string &prompt);
37
38     /**
39     * \brief Initialize the sampler
40     */
41     void initialize_sampler();
42
43     /**
44     * \brief Create the context.
45     * \details The context size is determined as
46     * number_of_tokens + m_prediction_length.
47     * \param number_of_tokens The number of tokens
48     * \return The context pointer
49     * \throw std::runtime_error if the context cannot be created
50     */
51     llama_context_ptr create_context(const std::size_t number_of_tokens);
52
53 public:
54     /**
55     * \brief Construct a new Model object
56     * \param model_path The path to the model file in GGUF format
57     * \param temperature The temperature
58     * \param number_of_gpu_layers The number of GPU layers to use
59     * \param prediction_length The maximum number of tokens to predict
60     * \throw std::runtime_error if the model cannot be loaded
61     */
62     Model(const std::string_view model_path, const float temperature,
63           const int32_t number_of_gpu_layers,
64           const std::size_t prediction_length);
65
66     /**
67     * \brief Apply the chat template to the messages
68     * \param messages The messages to format
69     * \return The formatted prompt
70     * \throw std::runtime_error if the chat template cannot be applied
71     */
72     std::string
73     get_formatted_prompt(const std::vector<llama_chat_message> &messages);
74
75     /**
76     * \brief Generate a response from the prompt
77     * \details The model generates a response to the prompt by sampling tokens

```

```
78 * and this function writes to out each token
79 * \param prompt The prompt to respond to
80 * \param out The output stream to write the response to
81 * \throw std::runtime_error if the generation fails
82 */
83 void generate_response(const std::string &prompt, std::ostream &out);
84 };
85 } // namespace model_wrapper
```

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