



Performance

Metrics			= =	
 First Contentful Paint 	1.5 s	First Meaningful Paint	1.5 s	
Speed Index	2.0 s	First CPU Idle	2.1 s	
Time to Interactive	2.1 s	Estimated Input Latency	10 ms	

Values are estimated and may vary.



Opportunities — These optimizations can speed up your page load.

Opportunity Estimated S		ed Savings
Eliminate render-blocking resources	_	0.15 s ^
Resources are blocking the first paint of your page. Consider delive inline and deferring all non-critical JS/styles. <u>Learn more</u> .	ring critical	JS/CSS
URL	Size (KB)	Potential Savings (ms)
css/main.5805a1b9.css (fahad00cms.github.io)	15 KB	150 ms
Reduce JavaScript execution time — Error! Consider reducing the time spent parsing, compiling, and executing JS. You may find delivering smaller JS payloads helps with this. Learn more.		
Minimize main-thread work — Error! Consider reducing the time spent parsing, compiling and executing JS. You may find delivering smaller JS payloads helps with this.		
Serve static assets with an efficient cache policy — 2 resources fou	nd	^
A long cache lifetime can speed up repeat visits to your page. <u>Learr</u>	n more.	
URL	Cache TTL	Size (KB)
js/main.85036db7.js (fahad00cms.github.io)	10 m	71 KB
css/main.5805a1b9.css (fahad00cms.github.io)	10 m	15 KB
 Minimize Critical Requests Depth — 2 chains found 		^

The Critical Request Chains below show you what resources are loaded with a high

priority. Consider reducing the length of chains, reducing the download size of

resources, or deferring the download of unnecessary resources to improve page load. Learn more.





Passed audits (17)

Properly size images

Serve images that are appropriately-sized to save cellular data and improve load time. Learn more.

Defer offscreen images

Consider lazy-loading offscreen and hidden images after all critical resources have finished loading to lower time to interactive. <u>Learn more</u>.

Minify CSS

Minifying CSS files can reduce network payload sizes. <u>Learn more</u>.

Minify JavaScript

Minifying JavaScript files can reduce payload sizes and script parse time. Learn more.

Remove unused CSS — Potential savings of 15 KB

Remove dead rules from stylesheets and defer the loading of CSS not used for abovethe-fold content to reduce unnecessary bytes consumed by network activity. <u>Learn</u> <u>more</u>.

URL	Size (KB)	Potential Savings (KB)
css/main.5805a1b9.css (fahad00cms.github.io)	15 KB	15 KB
Efficiently encode images		^
Optimized images load faster and consume less cellular data. <u>Le</u>	arn more.	
Serve images in next-gen formats		^
Image formats like JPEG 2000, JPEG XR, and WebP often provious than PNG or JPEG, which means faster downloads and less data more.		
Enable text compression		^
Text-based resources should be served with compression (gzip, ominimize total network bytes. <u>Learn more</u> .	deflate or brotli	i) to
Preconnect to required origins		^
Consider adding preconnect or dns-prefetch resource hints to est connections to important third-party origins. <u>Learn more</u> .	tablish early	
Server response times are low (TTFB) — Root document took 15	50 ms	^
Time To First Byte identifies the time at which your server sends a more.	a response. <u>Le</u>	<u>earn</u>
Avoid multiple page redirects		^
Redirects introduce additional delays before the page can be load	ded. <u>Learn mo</u>	<u>re</u> .
Preload key requests		^

Consider using k rel=preload> to prioritize fetching resources that are currently requested later in page load. Learn more.

Use video formats for animated content

Large GIFs are inefficient for delivering animated content. Consider using MPEG4/WebM videos for animations and PNG/WebP for static images instead of GIF to save network bytes. Learn more

Avoids enormous network payloads — Total size was 126 KB

Large network payloads cost users real money and are highly correlated with long load times. Learn more.

URL	Size (KB)
js/main.85036db7.js (fahad00cms.github.io)	71 KB
/Face_Recognizer/face_android.png (fahad00cms.github.io)	36 KB
css/main.5805a1b9.css (fahad00cms.github.io)	15 KB
<pre>chrome- extension://elicpjhcidhpjomhibiffojpinpmmpil/video/chromecastcheck.js</pre>	2 KB
/Face_Recognizer/ (fahad00cms.github.io)	1 KB
/Face_Recognizer/manifest.json (fahad00cms.github.io)	0 KB

Avoids an excessive DOM size — 39 nodes

Browser engineers recommend pages contain fewer than ~1,500 DOM nodes. The sweet spot is a tree depth < 32 elements and fewer than 60 children/parent element. A large DOM can increase memory usage, cause longer style calculations, and produce costly layout reflows. Learn more.

Statistic	Element	Value
Total DOM Nodes		39

Statistic	Element	Value
Maximum DOM Depth	<pre><label class="db fw6 lh-copy f6" for="email- address"></label></pre>	10
Maximum Child Elements	<head></head>	7

User Timing marks and measures

Consider instrumenting your app with the User Timing API to measure your app's real-world performance during key user experiences. <u>Learn more</u>.

All text remains visible during webfont loads

Leverage the font-display CSS feature to ensure text is user-visible while webfonts are loading. <u>Learn more</u>.



These checks highlight opportunities to improve the accessibility of your web app. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

Additional items to manually check (11) — These items address areas which an automated testing tool cannot cover. Learn more in our guide on conducting an

accessibility review.

The page has a logical tab order	^
Tabbing through the page follows the visual layout. Users cannot focus elements that are offscreen. <u>Learn more</u> .	
Interactive controls are keyboard focusable	^
Custom interactive controls are keyboard focusable and display a focus indicator. <u>Learning</u> .	<u>n</u>
Interactive elements indicate their purpose and state	^
Interactive elements, such as links and buttons, should indicate their state and be distinguishable from non-interactive elements. <u>Learn more</u> .	
The user's focus is directed to new content added to the page	^
If new content, such as a dialog, is added to the page, the user's focus is directed to it. <u>Learn more</u> .	
User focus is not accidentally trapped in a region	^
A user can tab into and out of any control or region without accidentally trapping their focus. <u>Learn more</u> .	
Custom controls have associated labels	^
Custom interactive controls have associated labels, provided by aria-label or aria-labelledby. <u>Learn more</u> .	
Custom controls have ARIA roles	^
Custom interactive controls have appropriate ARIA roles. <u>Learn more</u> .	
Visual order on the page follows DOM order	^
DOM order matches the visual order, improving navigation for assistive technology. <u>Learn more</u> .	
Offscreen content is hidden from assistive technology	^

Offscreen content is hidden with display: none or aria-hidden=true. Learn more.

Headings don't skip levels

Headings are used to create an outline for the page and heading levels are not skipped. Learn more.

HTML5 landmark elements are used to improve navigation

Landmark elements (<main>, <nav>, etc.) are used to improve the keyboard navigation of the page for assistive technology. <u>Learn more</u>.

Passed audits (10)

Buttons have an accessible name

When a button doesn't have an accessible name, screen readers announce it as "button", making it unusable for users who rely on screen readers. <u>Learn more</u>.

The page contains a heading, skip link, or landmark region

Adding ways to bypass repetitive content lets keyboard users navigate the page more efficiently. <u>Learn more</u>.

Background and foreground colors have a sufficient contrast ratio

Low-contrast text is difficult or impossible for many users to read. Learn more.

Document has a <title> element

The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. <u>Learn more</u>.

[id] attributes on the page are unique

The value of an id attribute must be unique to prevent other instances from being overlooked by assistive technologies. <u>Learn more</u>.

<html> element has a [lang] attribute

If a page doesn't specify a lang attribute, a screen reader assumes that the page is in the default language that the user chose when setting up the screen reader. If the page isn't actually in the default language, then the screen reader might not announce the page's text correctly. <u>Learn more</u>.

<html> element has a valid value for its [lang] attribute

Specifying a valid <u>BCP 47 language</u> helps screen readers announce text properly. <u>Learn more</u>.

Form elements have associated labels.

Labels ensure that form controls are announced properly by assistive technologies, like screen readers. Learn more.

Links have a discernible name

Link text (and alternate text for images, when used as links) that is discernible, unique, and focusable improves the navigation experience for screen reader users. <u>Learn more</u>.

[user-scalable="no"] is not used in the <meta name="viewport"> element and the [maximum-scale] attribute is not less than 5.

Disabling zooming is problematic for users with low vision who rely on screen magnification to properly see the contents of a web page. <u>Learn more</u>.

Not applicable (25)

Lighthouse Report Viewer [accesskey] values are unique Access keys let users quickly focus a part of the page. For proper navigation, each access key must be unique. Learn more. [aria-*] attributes match their roles Each ARIA 'role' supports a specific subset of 'aria-*' attributes. Mismatching these invalidates the 'aria-*' attributes. Learn more. [role]s have all required [aria-*] attributes Some ARIA roles have required attributes that describe the state of the element to screen readers. Learn more. Elements with [role] that require specific children [role]s, are present Some ARIA parent roles must contain specific child roles to perform their intended accessibility functions. Learn more. [role]s are contained by their required parent element Some ARIA child roles must be contained by specific parent roles to properly perform their intended accessibility functions. Learn more. [role] values are valid ARIA roles must have valid values in order to perform their intended accessibility functions. Learn more. [aria-*] attributes have valid values Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid values. Learn more. [aria-*] attributes are valid and not misspelled Assistive technologies, like screen readers, can't interpret ARIA attributes with invalid names. Learn more. <audio> elements contain a <track> element with [kind="captions"]

Captions make audio elements usable for deaf or hearing-impaired users, providing critical information such as who is talking, what they're saying, and other non-speech

information. Learn more.

<pre><dl>'s contain only properly-ordered <dt> and <dd> groups, <script> or <template> elements.</pre></th></tr><tr><th>When definition lists are not properly marked up, screen readers may produce confusing or inaccurate output. <u>Learn more</u>.</th></tr><tr><td>Definition list items are wrapped in <d1> elements</td></tr><tr><th>Definition list items (`<dt>` and `<dd>`) must be wrapped in a parent `<dl>` element to ensure that screen readers can properly announce them. <u>Learn more</u>.</th></tr><tr><td><pre><frame> or <iframe> elements have a title</pre></td></tr><tr><td>Screen reader users rely on frame titles to describe the contents of frames. <u>Learn more</u>.</td></tr><tr><td>Image elements have [alt] attributes</td></tr><tr><th>Informative elements should aim for short, descriptive alternate text. Decorative elements can be ignored with an empty alt attribute. <u>Learn more</u>.</th></tr><tr><th><pre><input type="image"> elements have [alt] text</pre></th></tr><tr><td>When an image is being used as an `<input>` button, providing alternative text can help screen reader users understand the purpose of the button. <u>Learn more</u>.</td></tr><tr><td>Presentational elements avoid using , <caption> or the [summary] attribute.</td></tr><tr><td>A table being used for layout purposes should not include data elements, such as the th or caption elements or the summary attribute, because this can create a confusing experience for screen reader users. <u>Learn more</u>.</td></tr><tr><td>Lists contain only elements and script supporting elements (<script> and <template>).</td></tr><tr><td>Screen readers have a specific way of announcing lists. Ensuring proper list structure aids screen reader output. <u>Learn more</u>.</td></tr><tr><td>List items () are contained within or parent elements</td></tr><tr><td>Screen readers require list items (``) to be contained within a parent `` or `` to be announced properly. <u>Learn more</u>.</td></tr><tr><td>The document does not use <meta http-equiv="refresh"></td></tr></tbody></table></script></dd></dt></dl></pre>

Users do not expect a page to refresh automatically, and doing so will move focus back to the top of the page. This may create a frustrating or confusing experience. <u>Learn</u> more.

<object> elements have [alt] text

Screen readers cannot translate non-text content. Adding alt text to `<object>` elements helps screen readers convey meaning to users. <u>Learn more</u>.

No element has a [tabindex] value greater than 0

A value greater than 0 implies an explicit navigation ordering. Although technically valid, this often creates frustrating experiences for users who rely on assistive technologies. Learn more.

Cells in a element that use the [headers] attribute only refer to other cells of that same table.

Screen readers have features to make navigating tables easier. Ensuring `` cells using the `[headers]` attribute only refer to other cells in the same table may improve the experience for screen reader users. <u>Learn more</u>.

elements and elements with [role="columnheader"/"rowheader"] have data cells they describe.

Screen readers have features to make navigating tables easier. Ensuring table headers always refer to some set of cells may improve the experience for screen reader users. <u>Learn more</u>.

[lang] attributes have a valid value

Specifying a valid <u>BCP 47 language</u> on elements helps ensure that text is pronounced correctly by a screen reader. Learn more.

<video> elements contain a <track> element with [kind="captions"]

When a video provides a caption it is easier for deaf and hearing impaired users to access its information. <u>Learn more</u>.

<video> elements contain a <track> element with [kind="description"]

Audio descriptions provide relevant information for videos that dialogue cannot, such as facial expressions and scenes. <u>Learn more</u>.



Passed audits (15)

Avoids Application Cache

Application Cache is deprecated. Learn more.

Uses HTTPS

All sites should be protected with HTTPS, even ones that don't handle sensitive data. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. <u>Learn more</u>.

Uses HTTP/2 for its own resources

HTTP/2 offers many benefits over HTTP/1.1, including binary headers, multiplexing, and server push. <u>Learn more</u>.

Uses passive listeners to improve scrolling performance

Consider marking your touch and wheel event listeners as 'passive' to improve your page's scroll performance. <u>Learn more</u>.

Avoids document.write()

For users on slow connections, external scripts dynamically injected via `document.write()` can delay page load by tens of seconds. <u>Learn more</u>.

Links to cross-origin destinations are safe

Add `rel="noopener"` or `rel="noreferrer"` to any external links to improve performance and prevent security vulnerabilities. <u>Learn more</u>.

Avoids requesting the geolocation permission on page load

Users are mistrustful of or confused by sites that request their location without context. Consider tying the request to user gestures instead. <u>Learn more</u>.

Page has the HTML doctype

Specifying a doctype prevents the browser from switching to quirks-mode.Read more on the MDN Web Docs page

Avoids front-end JavaScript libraries with known security vulnerabilities

Some third-party scripts may contain known security vulnerabilities that are easily identified and exploited by attackers. <u>Learn more</u>.

Detected JavaScript libraries

All front-end JavaScript libraries detected on the page.

Name Version

React

Avoids requesting the notification permission on page load

Users are mistrustful of or confused by sites that request to send notifications without context. Consider tying the request to user gestures instead. Learn more.

Avoids deprecated APIs

Deprecated APIs will eventually be removed from the browser. Learn more.

Allows users to paste into password fields

Preventing password pasting undermines good security policy. Learn more.

No browser errors logged to the console

Errors logged to the console indicate unresolved problems. They can come from network request failures and other browser concerns.

Displays images with correct aspect ratio

Image display dimensions should match natural aspect ratio. Learn more.



These checks ensure that your page is optimized for search engine results ranking. There are additional factors Lighthouse does not check that may affect your search ranking. <u>Learn more</u>.

Content Best Practices — Format your HTML in a way that enables crawlers to better understand your app's content.

▲ Document does not have a meta description

Meta descriptions may be included in search results to concisely summarize page content. Learn more.

	ditional items to manually check (1) — Run these additional validators on your site check additional SEO best practices.	^
	Structured data is valid	^
	Run the <u>Structured Data Testing Tool</u> and the <u>Structured Data Linter</u> to validate structured data. <u>Learn more</u> .	
Pas	ssed audits (9)	^
•	Has a <meta name="viewport"/> tag with width or initial-scale	^
	Add a viewport meta tag to optimize your app for mobile screens. <u>Learn more</u> .	
•	Document has a <title> element</td><td>^</td></tr><tr><td></td><td>The title gives screen reader users an overview of the page, and search engine users rely on it heavily to determine if a page is relevant to their search. <u>Learn more</u>.</td><td></td></tr><tr><td>•</td><td>Page has successful HTTP status code</td><td>^</td></tr><tr><td></td><td>Pages with unsuccessful HTTP status codes may not be indexed properly. Learn more</td><td></td></tr><tr><td>•</td><td>Links have descriptive text</td><td>^</td></tr><tr><td></td><td>Descriptive link text helps search engines understand your content. <u>Learn more</u>.</td><td></td></tr><tr><td>•</td><td>Page isn't blocked from indexing</td><td>^</td></tr><tr><td></td><td>Search engines are unable to include your pages in search results if they don't have permission to crawl them. <u>Learn more</u>.</td><td></td></tr></tbody></table></title>	

Document has a valid hreflang

hreflang links tell search engines what version of a page they should list in search results for a given language or region. <u>Learn more</u>.

Document uses legible font sizes — 100% legible text

Font sizes less than 12px are too small to be legible and require mobile visitors to "pinch to zoom" in order to read. Strive to have >60% of page text ≥12px. <u>Learn more</u>.

Source Selector % of Page Text Font Size

Legible text 100.00% $\geq 12px$

Document avoids plugins

Search engines can't index plugin content, and many devices restrict plugins or don't support them. <u>Learn more</u>.

● Tap targets are sized appropriately — 100% appropriately sized tap targets

Interactive elements like buttons and links should be large enough (48x48px), and have enough space around them, to be easy enough to tap without overlapping onto other elements. Learn more.

Not applicable (2)

robots.txt is valid

If your robots.txt file is malformed, crawlers may not be able to understand how you want your website to be crawled or indexed.

Document has a valid rel=canonical

Canonical links suggest which URL to show in search results. Learn more.



Progressive Web App

These checks validate the aspects of a Progressive Web App. <u>Learn more</u>.

Fast and reliable

Page load is fast enough on mobile networks

A fast page load over a cellular network ensures a good mobile user experience. <u>Learn</u> more.

Current page responds with a 200 when offline

If you're building a Progressive Web App, consider using a service worker so that your app can work offline. <u>Learn more</u>.

start_url responds with a 200 when offline

A service worker enables your web app to be reliable in unpredictable network conditions. <u>Learn more</u>.

Installable

Uses HTTPS

All sites should be protected with HTTPS, even ones that don't handle sensitive data. HTTPS prevents intruders from tampering with or passively listening in on the communications between your app and your users, and is a prerequisite for HTTP/2 and many new web platform APIs. <u>Learn more</u>.

Registers a service worker that controls page and start_url

The service worker is the technology that enables your app to use many Progressive Web App features, such as offline, add to homescreen, and push notifications. <u>Learn more</u>.

Web app manifest meets the installability requirements

Browsers can proactively prompt users to add your app to their homescreen, which can lead to higher engagement. <u>Learn more</u>.

PWA Optimized

Redirects HTTP traffic to HTTPS

If you've already set up HTTPS, make sure that you redirect all HTTP traffic to HTTPS. Learn more.

Configured for a custom splash screen

A themed splash screen ensures a high-quality experience when users launch your app from their homescreens. Learn more.

Sets an address-bar theme color

The browser address bar can be themed to match your site. Learn more.

Content is sized correctly for the viewport

If the width of your app's content doesn't match the width of the viewport, your app might not be optimized for mobile screens. <u>Learn more</u>.

Has a <meta name="viewport"> tag with width or initial-scale

Add a viewport meta tag to optimize your app for mobile screens. Learn more.

Contains some content when JavaScript is not available

Your app should display some content when JavaScript is disabled, even if it's just a warning to the user that JavaScript is required to use the app. <u>Learn more</u>.

Additional items to manually check (3) — These checks are required by the baseline PWA Checklist but are not automatically checked by Lighthouse. They do not affect your score but it's important that you verify them manually.

Site works cross-browser

To reach the most number of users, sites should work across every major browser. Learn more.

Page transitions don't feel like they block on the network

Transitions should feel snappy as you tap around, even on a slow network, a key to perceived performance. <u>Learn more</u>.

Each page has a URL

Ensure individual pages are deep linkable via the URLs and that URLs are unique for the purpose of shareability on social media. <u>Learn more</u>.

Runtime Settings

URL	https://fahad00cms.github.io/Face_Recognizer/
Fetch time	May 11, 2019, 11:50 AM GMT+5:30
Device	Emulated Nexus 5X
Network throttling	150 ms TCP RTT, 1,638.4 Kbps throughput (Simulated)
CPU throttling	4x slowdown (Simulated)
User agent (host)	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3729.131 Safari/537.36
User agent (network)	Mozilla/5.0 (Linux; Android 6.0.1; Nexus 5 Build/MRA58N) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/74.0.3694.0 Mobile Safari/537.36 Chrome-Lighthouse

CPU/Memory Power

559

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