

# LLM-gestuetzte-Softwareentwicklung-Labor

aus dem Studiengang LLM-gestuetzte-Softwareentwicklung

an der Hochschule Esslingen University of Applied Sciences Campus  
Esslingen Flandernstraße

von

Tim Jauch

Annabel Heberle

21.10.2025

**Matrikelnummer, Kurs:** 763086, SWB  
770677, SWB

**Betreuer an der HSE:** Prof. Dr. Jörg Nitzsche, Dr. Stefan Kaufmann, Klemens Morbe

# Selbstständigkeitserklärung

Wir versichern hiermit, dass wir unsere Arbeit mit dem Thema:

## **LLM-gestuetzte-Softwareentwicklung-Labor**

selbstständig verfasst und keine anderen als die angegebenen Quellen und Hilfsmittel benutzt haben. Wir versichern zudem, dass alle eingereichten Fassungen übereinstimmen.

Esslingen, 21.10.2025

---

Tim Jauch

---

Annabel Heberle

## Inhaltsverzeichnis

<b>1 Einleitung .....</b>	<b>1</b>
<b>2 Examples .....</b>	<b>2</b>
2.1 Acronyms .....	2
2.2 Glossary .....	2
2.3 Lists .....	2
2.4 Figures and Tables .....	2
2.4.1 Figures .....	3
2.4.2 Tables .....	3
2.5 Code Snippets .....	3
2.6 References .....	4
<b>3 Conclusion .....</b>	<b>5</b>
<b>Literatur .....</b>	<b>a</b>

## Abbildungsverzeichnis

Abbildung 1: Image Example .....	3
----------------------------------	---

## Tabellenverzeichnis

<b>Tabelle 1: Table Example .....</b>	<b>3</b>
---------------------------------------	----------

## Codeverzeichnis

<b>Listing 1: Codeblock Example .....</b>	<b>3</b>
---	----------

## Abkürzungsverzeichnis

<b>API</b>	Application Programming Interface
<b>HTTP</b>	Hypertext Transfer Protocol
<b>REST</b>	Representational State Transfer

## Glossar

<b>Exploit</b>	An exploit is a method or piece of code that takes advantage of vulnerabilities in software, applications, networks, operating systems, or hardware, typically for malicious purposes.
<b>Patch</b>	A patch is data that is intended to be used to modify an existing software resource such as a program or a file, often to fix bugs and security vulnerabilities.
<b>Vulnerability</b>	A Vulnerability is a flaw in a computer system that weakens the overall security of the system.



## 1 Einleitung

PokéStack: Gonna know them all!

Weitere Ideen: LLM spuckt Intressante Fakten zu den Pokemon die aktiv im Spiel sind aus.

## 2 Examples

B

### 2.1 Acronyms

Use the `acr` function to insert acronyms, which looks like this Hypertext Transfer Protocol (HTTP).

Application Programming Interfaces are used to define the interaction between different software systems.

REST is an architectural style for networked applications.

### 2.2 Glossary

Use the `gls` function to insert glossary terms, which looks like this:

A Vulnerability is a weakness in a system that can be exploited.

### 2.3 Lists

Create bullet lists or numbered lists.

- This
- is a
- bullet list

1. It also
2. works with
3. numbered lists!

### 2.4 Figures and Tables

Create figures or tables like this:

### 2.4.1 Figures



Abbildung 1 – Image Example

### 2.4.2 Tables

	Area	Parameters
cylinder.svg	$\pi h \frac{D^2 - d^2}{4} \quad (1)$	<i>h</i> : height <i>D</i> : outer radius <i>d</i> : inner radius
tetrahedron.svg	$\frac{\sqrt{2}}{12} a^3 \quad (2)$	<i>a</i> : edge length

Tabelle 1 – Table Example

## 2.5 Code Snippets

Insert code snippets like this:

```
1  const ReactComponent = () => {  
2    return (  
3      <div>  
4        <h1>Hello World</h1>  
5      </div>  
6    );  
7  };  
8  
9  export default ReactComponent;
```

Listing 1 – Codeblock Example

## 2.6 References

Cite like this International Organization for Standardization [1]. Or like this [1].

You can also reference by adding <ref> with the desired name after figures or headings.

For example this Tabelle 1 references the table on the previous page.

### 3 Conclusion

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequae doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequae doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et collaudata est, cum id, quod maxime placeat, facere possimus, omnis voluptas assumenda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet, ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum.

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim aequae doleamus animo, cum corpore dolemus, fieri tamen permagna accessio potest, si aliquod aeternum et infinitum impendere malum nobis opinemur. Quod idem licet transferre in voluptatem, ut postea variari voluptas distinguere possit, augeri amplificarique non possit. At etiam Athenis, ut e patre audiebam facete et urbane Stoicos irridente, statua est in quo a nobis philosophia defensa et.

## Literatur

- [1] International Organization for Standardization, „ISO/IEC 18004: Information technology – Automatic identification and data capture techniques – QR code bar code symbology specification“, in *ISO/IEC 18004:2015*, 2015.