

## Profile

Motivated and detail-oriented Software Engineer and current M.Sc. Data and Knowledge Engineering student at Otto von Guericke University Magdeburg. Brings 1.5 years of experience in full-stack development and data-driven analytics at Mercedes-Benz R&D India. Experienced in developing data-centric applications using Python and Flask, and skilled with machine learning frameworks (TensorFlow, PyTorch, scikit-learn). Strong foundation in Python, JavaScript, machine learning & deep learning, and data engineering & analytics for building reliable, insight-driven solutions.

## Technical Skills

Programming	Python (Flask, FastAPI); JavaScript (ReactJS, NodeJS); Java
Data & ML	Microsoft Power BI (Dashboard Creation); NumPy; Pandas; TensorFlow; PyTorch; scikit-learn, streamlit
LLMs & NLP	SentenceTransformers; LLaMA 3.2; GPT Models; KeyBERT; ChromaDB; RAG pipelines; FastAPI; Ollama
Low-code	Microsoft Power Platform (Power Apps, Power Automate)
Web	HTML; CSS; Tailwind CSS; ReactJS;
VCS	Git; GitHub; GitLab

## Education

Oct 2024–Present	<b>M.Sc. Data and Knowledge Engineering</b> , <i>Otto von Guericke University Magdeburg</i> , Magdeburg, Germany <b>Relevant coursework:</b> Machine Learning & AI-based Decision Support; Information Retrieval; Advanced Database Models
Jul 2019–Jul 2023	<b>B.E. Computer Science and Engineering</b> , <i>Malnad College of Engineering</i> , Hassan, India <b>Relevant coursework:</b> Data Structures and Algorithms; Computer Networks; Artificial Intelligence; Machine Learning. <b>Final Year Project:</b> Certificate Creation and Authentication System (MongoDB, ExpressJS, ReactJS, NodeJS).

## Professional Experience

Aug 2023–Aug 2024	<b>Graduate Engineer Trainee</b> , <i>Mercedes-Benz Research and Development India</i> , Bengaluru, India <ul style="list-style-type: none"><li>Designed and implemented ML models in <b>Python (scikit-learn, TensorFlow)</b> for predictive analytics supporting data-driven decisions.</li><li>Built <b>interactive Power BI dashboards</b> to analyze complex datasets and surface operational insights.</li><li>Developed and maintained <b>full-stack Java application</b>; optimized performance using JMeter and JProfiler.</li><li>Collaborated across functions to gather requirements and align software deliverables with business goals.</li></ul>
Mar 2023–Jul 2023	<b>Intern</b> , <i>Mercedes-Benz Research and Development India</i> , Bengaluru, India <ul style="list-style-type: none"><li>Applied <b>Python (NumPy, Pandas)</b> for data analysis and insight generation.</li><li>Supported backend feature optimization to enhance performance and user experience.</li></ul>
Oct 2022–Jul 2023	<b>Technical Head</b> , <i>MERIISE Foundation</i> , Hassan, India <ul style="list-style-type: none"><li>Led MERIISE website development using <b>Javascript</b>, and co-organized technical innovation events.</li></ul>

## Projects

- LLM Tutor:** Built with **FastAPI**, **Ollama**, and **ReactJS + TailwindCSS** frontend for adaptive tutoring and persona stability. Integrated **SentenceTransformers (all-MiniLM-L6-v2)** for semantic retrieval and **ChromaDB** for indexing. Designed modular microservices for authentication, document ingestion, and secure storage. Incorporated multimodal support via **Amazon Polly** for accessibility and applied human-centered AI principles.

- **AI Resume Analyzer & Enhancer Platform:** Published at **CLiC-it 2025, Cagliari, Italy**. End-to-end system built with **Flask (Python)** and **FastAPI** backend, and **ReactJS** frontend integrated via **Firebase** for real-time GPT-powered feedback. Combined **SentenceTransformers (multi-qa-MiniLM-L6-v1, all-MiniLM-L6-v2)**, **KeyBERT**, and **RapidFuzz** for semantic and keyword matching, and utilized instruction-tuned **LLaMA 3.2** for factual, section-wise enhancement. Designed with fairness and authenticity to prevent hallucination and bias.
- **Certificate Creation & Authentication:** Secure digital certificate generation using the **MERN stack (MongoDB, ExpressJS, ReactJS, NodeJS)**; automated verification workflow with **JWT** authentication.