

Chinmayi Ravi Shankar

+49 1522 8574684
chinmayirs10@gmail.com
chinmayi-r-shankar-b78b07244

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	M.Sc. Data and Knowledge Engineering , Otto von Guericke University Magdeburg, Magdeburg, Germany
	Relevant coursework: Machine Learning & AI-based Decision Support; Information Retrieval; Advanced Database Models
Jul 2019–Jul 2023	B.E. Computer Science and Engineering , Malnad College of Engineering, Hassan, India

2023 **Relevant coursework:** Data Structures and Algorithms; Computer Networks; Artificial Intelligence; Machine Learning.
Final Year Project: Certificate Creation and Authentication System (MongoDB, ExpressJS, ReactJS, NodeJS).

Professional Experience

Aug 2023–Aug 2024	Graduate Engineer Trainee , Mercedes-Benz Research and Development India, Bengaluru, India
	○ Designed and implemented ML models in Python (scikit-learn, TensorFlow) for predictive analytics supporting data-driven decisions.
	○ Built interactive Power BI dashboards to analyze complex datasets and surface operational insights.
	○ Developed and maintained full-stack Java application ; optimized performance using JMeter and JProfiler.
	○ Collaborated across functions to gather requirements and align software deliverables with business goals.
Mar 2023–Jul 2023	Intern , Mercedes-Benz Research and Development India, Bengaluru, India
	○ Applied Python (NumPy, Pandas) for data analysis and insight generation.
	○ Supported backend feature optimization to enhance performance and user experience.
Oct 2022–Jul 2023	Technical Head , MERIISE Foundation, Hassan, India
	○ Led MERIISE website development using Javascript , and co-organized technical innovation events.

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.