

Gunasekhar Jenni

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ABOUT ME

Pursuing a Master's in Computer Science with 2 years of experience as a Research Assistant at Fraunhofer IEE, specializing in Python and PostgreSQL for data analysis. Hands-on experience in Generative AI through a major university project and ongoing Master's thesis over the past 1.5 years. I am eager to contribute my knowledge and experience to support the growth of the organization in the best way possible.

WORK EXPERIENCE

University Research Assistant, Fraunhofer IEE	06/2023 – Current Kassel, Germany
<ul style="list-style-type: none">Delivered insights from large-scale energy datasets by conducting analysis using Python, PostgreSQL, and GIS.Enabled collaboration across teams by preprocessing and transforming data required by other research scientists.Developing a Master's thesis using open-source VLMs for analyzing urban remote sensing imagery and tabular data.	
Project Intern, Weir Ensci	04/2019 – 06/2019 Bengaluru, India
<ul style="list-style-type: none">Collaborated in a 4-member team to design a procurement system optimizing order quantities and cost.Improved vendor efficiency by developing a management and sourcing application.Streamlined industrial inventory tracking by implementing an IoT-based interface.	

EDUCATION AND TRAINING

Masters In Computer Science, University of Paderborn	10/2022 – Current Paderborn, Germany
Bachelor of Engineering in Computer Science, <i>The National Institute of Engineering</i> GPA: 8.13 (German Scale: 1.93)	08/2016 – 10/2020 Mysuru, India

PROJECTS

Artificial Intelligence for Systems Engineering ☑	10/2023 – 09/2024
<ul style="list-style-type: none">Built a functional full stack AI tool for requirement generation by integrating RAG, LLMs, and prompt engineering using LangChain, FastAPI, React, and Python.Served as the Software Architect in a 6-member team with defined roles including Project Manager, Scrum Master, Product Owner, and Usability Engineer.Designed the software architecture by integrating frameworks and libraries such as LangChain, ChromaDB, GitLab, Streamlit, and Python.	

YouTube Video Transcriber to Notes	05/2025
<ul style="list-style-type: none"> Built a Streamlit web app that summarizes YouTube educational videos by extracting transcripts and generating structured notes using Google Gemini API. 	
Augmented and Mixed Reality (AR/XR) in Chemistry Lab	04/2023 – 09/2023
<ul style="list-style-type: none"> Developed intuitive UI features for the AR application using Unity and deployed the final solution on Microsoft HoloLens 2. 	
Student Exam Performance Predictor	07/2025
<ul style="list-style-type: none"> Built a ML web application built with Flask to predict a student's Math score based on demographic and academic inputs. 	
Explainability Framework for Graph Neural Network	07/2024
<ul style="list-style-type: none"> Trained a GNN model on the MovieLens dataset, utilizing the Captum Explainer technique to provide insights into individual link predictions. 	


PUBLICATIONS

IJARCEE - International Journal of Advanced Research in Computer and Communication Engineering. Volume 9, Issue 5, May 2020	01/12/2019
<ul style="list-style-type: none"> Impact Factor 7.078 Indexed by Microsoft Academic, Google Scholar, Mendely, NAAS Accredited Science Journal Thomson Reuters ID I-865-2027 Describes an IoT system for accident detection and location tracking. 	

HONOURS AND AWARDS

Weir Ensci TechMeraki 2019 Idea to Innovation, <i>Weir Ensci</i>	07/05/2019
<ul style="list-style-type: none"> Finalist (Top 7/50), Weir Ensci TechMeraki 2019 for IoT-based Inventory System 	
Elite Certification in Introduction to Internet of Things (NPTEL), <i>Indian Institute of Technology Kharagpur</i>	30/09/2018

NETWORKS AND MEMBERSHIPS

Google Developer Group, <i>Team Member</i> 	04/2023 – Current
<ul style="list-style-type: none"> Core team member in a 5-person leadership group guiding 111 participants in campus tech initiatives. Organized workshops on Generative AI, LLMs, and Google Gemini Delivered a session on Open Source LLMs covering architecture, use cases, and applications. 	
	Paderborn, Germany

SKILLS

Programming Python, SQL, C++, C#, Julia, C, HTML/CSS, MATLAB, Bash, LaTeX	Libraries & Frameworks Scikit-learn, Numpy, Matplotlib, LangChain, FastAPI, Hugging-Face, Transformers, Streamlit, Gradio
Database PostgreSQL, MySQL, MongoDB, ChromaDB	Data & AI ML, Generative AI(LLMs, VLMs, Prompt Engineering, RAG), NLP, Data Driven Engineering,
Tools & Platforms Git (Gitlab, Github), VS Code, Spyder, Jupyter Notebook, Unity, Excel, Word, Powerpoint, Canva, Docker	

LANGUAGE SKILLS

English
C1

German
A2

Telugu
Mother Tongue