

# Gunasekhar Jenni

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## ABOUT ME

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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

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

## EDUCATION AND TRAINING

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

## PROJECTS

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

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


## PUBLICATIONS

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

## HONOURS AND AWARDS

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

## NETWORKS AND MEMBERSHIPS

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

## SKILLS

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

LANGUAGE SKILLS

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English  
C1

German  
A2

Telugu  
Mother Tongue