**CHAITRA SUTARI**

Software Engineer | Machine Learning Engineer | Data Science Enthusiast

[sutac01@pfw.edu](mailto:sutac01@pfw.edu) | <https://chaitrasutari.github.io/> | +1 (260) 237 6367

[linkedin.com/in/chaitrasutari/](https://www.linkedin.com/in/chaitrasutari/) | [github.com/chaitrasutari](https://github.com/chaitrasutari)

Dynamic and detail-oriented Software Engineer with over two years of experience in Machine Learning, Data Science, and Software Development. Proven track record of developing innovative solutions at Amazon and contributing to impactful research in AI-driven drug discovery. I am eager to further specialize in Artificial Intelligence, Machine Learning, and Natural Language Processing during my Master's at Purdue University.

**EDUCATION**

**Master of Science (M.S.) - Computer Science** Aug 2024 - May 2026 (Expected)

*Purdue University, Fort Wayne, Indiana, USA*

**Bachelor of Technology (B.Tech.) – ECE** Aug 2019 - Jun 2023

*GRIET, Hyderabad, Telangana, India* Overall CGPA: 8.16/10

**WORK EXPERIENCE**

**Machine Learning Research Consultant** Jul 2023 - Jun 2024

*Rivach LLP, Hyderabad, India (*[*https://www.rivach.com*](https://www.rivach.com)*) Full-Time (FTE)*

* Machine learning (ML) systems have been optimized for digital products with a focus on computer vision and recommendation systems, enhancing the accuracy by 25%.
* Collaborated with full-stack developers to integrate ML models, enhancing user experience and driving growth.

**Software Development Engineer** Jan 2023 - Jun 2023

*Amazon.com, Inc., Hyderabad, India Internship*

* Developed a feature for Amazon Seller Central using AWS services such as SQS, S3, SNS, SES, and Lambda, supporting over 15,000 users.
* Enabled clients to create and update their schedules via email calendars, increasing user engagement by 30% and reducing customer support requests by 20%.

**Machine Learning Researcher** Mar 2021 - Mar 2022

*Centella Scientific Pvt Ltd, Hyderabad,* *India* (<https://www.centella.co.in>) *Internship*

* Integrated deep learning algorithms for drug discovery applications, focusing on virtual screening and ADMET-based Machine Learning model research.
* Implemented machine learning pipelines on the KNIME platform, accelerating drug repurposing tasks by 25%.

**Associate Student Coordinator & Student Mentor** Jun 2019 – May 2022

*Advance Academic Center, GRIET Student Club*

* Spearheaded student-led initiatives, organizing the Project Expo, which attracted over 200 attendees and increased project submissions by 40%.
* Provided one-on-one mentorship to 15 students in machine learning, resulting in 80% of them securing internships or publishing their work in academic journals.
* Coordinated an award ceremony celebrating student achievements, fostering a culture of innovation and academic excellence within the center.

**PROJECTS**

**Raspberry Pi-based Embedded Vision Module** Jan 2023

* Developed an embedded vision module using a Raspberry Pi and Pi camera to assist the visually impaired in real-time. The module captures live video feed and processes it to detect objects and obstacles in the user's environment, the system can identify and announce objects and potential hazards. The identified objects are converted into speech output, enabling users to navigate their surroundings more safely and independently.
* Employed the YOLOv3 (You Only Look Once) algorithm for object detection and the RVNet architecture for obstacle detection with an accuracy of 75%.

**Text Summarization using NLP** July 2022

* Employed extractive summarization techniques to generate concise summaries from extensive textual content.

**Prediction of International Natural Gas Prices** Oct 2022

* Applied time-series machine learning models to predict global natural gas prices with 78% accuracy.

**PUBLICATION**

**Enhanced Demand Forecasting System for Food and Raw Materials**

*Published in IEEE DOI: 10.1109/AIMV53313.2021.9671005*

* The paper proposes an enhanced forecasting system that forecasts the amount of raw materials, the number of customers, and sales for particular dishes using the Stacking technique.
* Developed using ensemble learning techniques like XGBoost and Random Forest to forecast demand and optimize resource allocation.

**SKILLS**

* **Languages & Frameworks:** Java, Python, JavaScript, HTML/CSS, SQL, Gradle.
* **Technologies & Tools:** Artificial Intelligence, Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, AWS Cloud, Git.

**CERTIFICATIONS**

Introduction to Programming using Python Jan 2022

Introduction to IoT – NPTEL Jul 2021