

Thanmayee

Software Engineer | Business Analyst | Machine Learning Enthusiast | pujari.thanmayee@gmail.com | +919346744570 | Andhra Pradesh

[Linkedin](#) | [github](#) | [LeetCode](#) | [hackerrank](#)

Education

Vellore Institute of Technology

Computer Science Engineering in Business Systems Bachelors

Experience

Amaravati

August 2021 - July 2025 *CGPA: 8.90*

Experience

SOUL Startup | Data Analyst

3 months

- Developed a facial recognition and real-time health monitoring system using OpenCV, achieving 95% accuracy in detecting pulse rate, stress levels, and SpO2.
- Improved health insight accuracy by 20% through advanced machine learning techniques.
- Strengthened expertise in computer vision, image processing, and real-time data analysis.

Foundit | Technical Sales and Business Developer (In-Office) Intern

Bengaluru, India | 11th Sept 2023 to 10th Nov 2023

- Demonstrated tech solutions to potential clients using data analytics, highlighting key product features and optimizing market impact, resulting in a 20% growth in new customer acquisition and a 10% revenue increase.
- Pioneered practical solutions for real-world applications through hands-on experience.

Bharat Intern | Machine Learning Intern

August 2023

- Analyzed the Iris and Wine Quality Prediction datasets using algorithms such as Logistic Regression, k-nearest Neighbors, and Random Forest.
- Enhanced skills in data preprocessing, feature engineering, and model evaluation.
- Built and optimized predictive models in Python using libraries like pandas and sci-kit-learn, achieving high accuracy and precision.

Facial Recognition and Health Monitoring System: | OpenCV, MediaPipe *Python, TensorFlow, ReactJS* *Git*

* Achieved a real-time facial recognition and health assessment platform with OpenCV and Mediapipe; improved detection accuracy to 98% and reduced latency by 40%, optimizing user engagement and satisfaction.

* Executed machine learning models in Python and TensorFlow to detect health metrics. * Built a ReactJS interface for live video streaming and real-time health metrics display * Managed version control and collaboration using Git for efficient project development.

Lip Reading using Deep Learning: *Streamlit, TensorFlow python*

* Demonstrated a deep learning model using TensorFlow and PyTorch, leveraging CNNs and RNNs for lip reading from video inputs. Integrated the model into an interactive Streamlit application, enabling real-time lip-reading predictions from user-provided videos.

Smart Vacuum Cleaner with Arduino:

* Engineered an autonomous smart vacuum cleaner using the Arduino platform, integrating **motor control** for precise movement and **ultrasonic sensors** for dynamic obstacle detection. Implemented a **navigation algorithm** to optimize cleaning paths and avoid collisions.

* . This project demonstrates proficiency in **embedded systems**, **robotics**, and **sensor integration** for real-time operational efficiency.

Web Scrapping Project:

- Adminstered a robust web scrapping application using Python and BeautifulSoup to gather and analyze data from multiple websites. Executed automated data extraction and parsing techniques to transform unstructured web content into structured datasets. Leveraged HTTP requests and HTML parsing for efficient data retrieval, enhancing proficiency in data mining and web automation technologies.

Certifications

- Data Analytics with Python - NPTEL
- Microsoft Azure fundamentals - Badge
- Google certified Digital marketing
- Certification in Power BI and Tableau
- Generative AI: The Evolution of Thoughtful Online Search - LinkedIn
- Artificial Intelligence and Machine Learning from SmartInternz

Positions of Responsibility

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- * Co-led the content writing department at NextGen Cloud Club.
 - * Contributed as a member of the technical team at the Machine Learning Club.