# SANJANA. R

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## SUMMARY

Result-oriented software engineer with strong problem-solving skills, expertise in Python and SAP, and delivering highly impactful software products. Excited to join a supportive team at Autodesk and make meaningful contributions to the growth of the company.

## WORK EXPERIENCE

**Full Stack Development Intern, Taiyari24**                    **May 2025 - July 2025**

- Developed and implemented the front-end for the Events section of the company website using Next.js, TypeScript, and React.
- Designed responsive UI components to manage event creation, listing, and details view, ensuring consistency with brand aesthetics.
- Used Git for version control and contributed to team workflows through feature branches and pull requests.

**SDE Intern, Gas Turbine Research Establishment (DRDO)**                    **June 2024 - July 2024**

- Collaborated with the IT department to assist in setting up and troubleshooting intranet connections and internal systems.
- Designed and deployed an NLP-based News Dashboard that fetches, filters, and displays high-priority news from multiple sources every 5 minutes.

## EDUCATION

**Bachelor of Technology in Computer Science and Engineering (AI)**                    **Sep 2022 - May 2026**

Amrita Vishwa Vidyapeetham, Bengaluru Campus                    CGPA: 9.31
- Computer Vision, Natural Language Processing

**Pre-University College**                    **June 2020 - May 2022**

New Horizon PU College, Kasturi Nagar                    Percentage: 97.8%
- Programming in C++, Object Oriented Programming

## PROJECTS

- **Turmeric Rhizome Classification and Picking robot (Ongoing):** Industry project focused on automating the grading of turmeric rhizomes. Designed and annotated a custom dataset, experimented with multiple segmentation algorithms (including SAM and UNet variants) for feature extraction, and developed computer vision pipelines for quality-based classification.

- **Sketch-to-face generator using GAN:** Built a GAN-based model to generate realistic face images from hand-drawn sketches using image-to-image translation techniques, improving output through model tuning and loss optimization.

- **Social Media Bias Reducer:** Built a Graph Neural Network Based system that will identify bias such as racial bias in social media posts and reduce its propagation in the social network.

## SKILLS AND TOOLS

- Programming / Scripting: Java, Python, Shell
- Databases: MySQL, MongoDB
- AI/ML: PyTorch, Scikit learn, TensorFlow, CV techniques, HuggingFace, Roboflow (Data labelling)
- Data Visualization: Tableau, Excel
- Development Tools: Git, Github, Figma (UX design), Eclipse, IntelliJ Idea
- OS: Windows, Ubuntu
- Core Competencies: Problem Solving, Adaptability

## CERTIFICATIONS

- Google UX Design Professional Certificate
- Generative AI Professional Certificate - Fractal Analytics
- AWS Academy Graduate - AWS Academy Introduction to Cloud Semester 1

## PAPER PUBLICATIONS

- CryptoTalk Voice Shield: Secure Speech Communication System using Arduino - STM Journals (2025)
- The Economic Fallout of War: A Macroeconomic Analysis of the Relationship between Wars and Global Recessions (2024)
- CBAM - Enhanced Generative Adversarial Network for Edge-Aware Sketch-to-Face Synthesis - IEEE- APCIT (Under publication)