SUJANA KOLA

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Education

Vellore Institute Of Technology, Vellore	**May 2025**
M.Tech Integrated Software Engineering	*CGPA: 9.01*
St.Patricks Junior College, Hyderabad	**April 2020**
TSBIE MPC	*Percentage: 92.4%*
Johnson Grammar School, Hyderabad	**April 2018**
ICSE	*Percentage: 82.83%*

Experience

NXP Semiconductors — **Aug 2024 – June 2025**
QA & Test Automation Intern – Wireless Systems (UWB) — *Bangalore*
- Automated 20+ UWB system validation test cases, cutting manual QA effort by 30% and boosting cycle efficiency.
- Collaborated with firmware and systems teams to diagnose and resolve critical calibration issues, improving module stability across builds.

Future Skills Prime — **May 2023 – July 2023**
Data Science Intern — *Remote*
- Developed and deployed a thyroid disease classification model with 94% accuracy using Random Forest and Flask.
- Handled end-to-end ML pipeline: data cleaning, feature engineering, hyperparameter tuning, and model deployment to a web interface.

Valsco Technology – Jurident — **April 2023 – July 2023**
UI/UX Design Intern — *Vellore*
- Designed 15+ high-fidelity Figma prototypes for a legal-tech platform, improving usability testing scores by 40%.
- Improved user experience through iterative design, stakeholder feedback loops, and refinement for production-ready UI.

Projects

Budget Tracker – *Live Demo* | *GitHub*
- Developed a fully responsive web app to track income and expenses with category-wise filtering, real-time balance updates, CSV export, localStorage persistence, and Chart.js-based spending visualizations.

Thyroid Disease Classification – *Live Demo* | *GitHub*
- Created a Streamlit-based ML web app using Random Forest (94% accuracy), with full ML pipeline: preprocessing, EDA, feature selection, and deployment via Render for real-time thyroid disease prediction.

Seam Carver – *Live Demo* | *GitHub*
- Built a Java-based web app for content-aware image resizing using seam carving and dynamic programming; supported high-res uploads, directional resizing, pixel energy mapping, and real-time visual previews.

Technical Skills

Languages: Python, Java, JavaScript, HTML, CSS, SQL

Frameworks & Libraries: Flask, Streamlit, Selenium, Chart.js, Bootstrap, Tailwind CSS

Tools & Platforms: Jenkins, Jira, Git, Bitbucket, VS Code, WordPress, Figma, Adobe Photoshop, Trello

Concepts: OOPS, DSA, Test Automation, Web Development, CI/CD, Agile Development, Machine Learning

Certifications

- AWS Certified Cloud Practitioner – Amazon Web Services
- Web Development (HTML, CSS, JS) – Coursera
- Python Programming (Programming for Everybody) - Coursera

Achievements

- **1st Place** – HackX 36-Hour Hackathon by IEEE-SPS (2021). Led Team Hackers-XD to build and deploy an innovative tech solution in a time-critical environment.
- **Published Paper** – Presented ***Handwritten Character Recognition Using Deep LSTM Approach*** at the 14th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2022).
- **Merit Scholar** – Received VIT Merit Scholarship for academic excellence (2020–2021).
- **Leadership** – Core Member of 3 active student clubs at VIT: VinnovateIT, FEPSI, and Animation Club, contributing to technical and creative initiatives.