

# Shivani AN

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## EDUCATION

<b>Siddaganga Institute of Technology</b> <i>Bachelor of Engineering in Computer Science (CGPA: 9.51/10)</i>	Tumkur, Karnataka, India Dec 2022 – May 2026
<b>Vidyanidhi PU College</b> <i>Pre-University Course (PUC), Science — Percentage: 96%</i>	Tumkur, Karnataka, India Completed in 2022
<b>Shree Basaveshwara English Medium High School</b> <i>Secondary School Leaving Certificate (10th) — Percentage: 97%</i>	Tumkur, Karnataka, India Completed in 2020

## TECHNICAL SKILLS

**Programming Languages:** Java(proficient), C, JavaScript, HTML/CSS  
**Tools & Technologies:** Git, Postman, WebRTC, VSCode  
**Frameworks:** React.js, Node.js, Express.js  
**Databases:** MySQL, MongoDB  
**Fundamentals:** Data Structures and Algorithms, Operating Systems, DBMS, Computer Networks, Object Oriented Programming

## PROJECTS

<b>JustHire (<a href="#">Link</a>)</b> <i>AI-Powered Job Hiring Platform</i> <ul style="list-style-type: none"><li>Designed and developed a <b>scalable, responsive UI</b> for a role-based hiring platform using <b>React.js, Tailwind CSS, and Vite</b>.</li><li>Built <b>reusable, high-performance UI components</b> to support <b>Admin, Expert, and Candidate</b> dashboards, improving maintainability.</li><li>Implemented <b>real-time video calling</b> with an optimized frontend experience using <b>WebRTC and Socket.IO</b>.</li><li>Integrated the <b>Web Speech API</b> for <b>automated evaluation</b>, enhancing interactivity and accessibility.</li><li>Utilized <b>MongoDB</b> for <b>efficient data storage and retrieval</b>, improving API response times</li><li><b>Tech Stack:</b> React.js, Tailwind CSS, Vite, WebRTC, Socket.IO, Web Speech API, JavaScript, HTML, CSS.</li></ul>	Aug 2024 – Sept 2024
<b>MediAI</b> <i>Healthcare Management System with Predictive Modeling</i> <ul style="list-style-type: none"><li>Designed a <b>modular profile management system</b> for <b>doctors, nurses, and receptionists</b>, enhancing workflow efficiency.</li><li>Integrated <b>PACS (Picture Archiving and Communication System)</b> for <b>DICOM image processing</b>, enabling <b>early breast cancer detection</b> using a <b>CNN-based model</b> with <b>87% accuracy</b>.</li><li>Implemented <b>Human-in-the-Loop (HITL)</b> techniques to iteratively refine <b>predictive machine learning models</b>.</li><li>Built a <b>hospital inventory management system</b> with <b>automated email alerts</b>, reducing medicine shortages.</li><li><b>Tech Stack:</b> React.js, Django, CNN, PACS, PostgreSQL, REST API, Computer Vision.</li></ul>	Sept 2024 – Oct 2024
<b>Breast Cancer Detection (<a href="#">Link</a>)</b> <i>Breast Cancer Detection using CNN and Machine Learning Models</i> <ul style="list-style-type: none"><li>Developed a <b>deep learning model</b> leveraging <b>CNN</b> for <b>medical image classification</b>, achieving a <b>20%+ accuracy improvement</b> through <b>Principal Component Analysis (PCA)</b> for feature extraction and <b>regularization techniques</b> to mitigate overfitting, ensuring enhanced model generalization and performance.</li><li>Applied <b>Machine Learning algorithms</b> like <b>Logistic Regression, XGBoost, Random Forest</b> for <b>breast cancer detection</b> using <b>cellular data</b>.</li></ul>	Nov 2024 – Jan 2024

- Optimized **data preprocessing pipelines** with **NumPy, Pandas**, reducing **training time** and **memory usage**.
- Designed and implemented a **responsive UI** for **data visualization** using **Matplotlib and Seaborn**.
- **Tech Stack:** Python, TensorFlow, Keras, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, OpenCV.

## ACHIEVEMENTS

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- Solved 400+ problems on **LeetCode, GeeksForGeeks, and HackerRank**, focusing on DSA
- Achieved a **5-star Java rating on HackerRank** and earned **Java Proficiency Certification**.
- Winner - **SIH Internal Campus Hackathon 2024**.
- Top 19 Finalist - **DSU DevHack 2024** (National-Level Hackathon).
- **Completed GeeksforGeeks Advanced DSA Certification** – An 8-week live training program on Advanced DSA

## ORGANIZATIONS

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- **SARK:** Organized technical events such as Capture the Flag, Clash of Codes, and workshops on Python and Web Development, fostering technical growth among 200+ participants.
- **IIC:** Conducted events to raise awareness about societal and environmental issues, facilitating funding for impactful projects.