# AKSHATA A BHAT

Bengaluru, India

Email LinkedIn GitHub Website Blog

## EDUCATION

**BTech, Computer Science and Engineering**, Vellore Institute of Technology, Vellore 2020 - 2024
**Relevant Coursework:** Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Software Engineering, Web Programming, Database Systems, Operating Systems, Linear Algebra
*CGPA: 8.42*

## SKILLS

**Technical Skills** **Programming Languages:** Python, Java, C, PHP, JavaScript, SQL
**Other:** HTML, CSS, AWS, Beautiful Soup, scikit-learn, neural networks, tensorflow, GitHub

## EXPERIENCE

**Research Intern** May 2023 - Present
Centre of Excellence in Advanced Manufacturing Technology, Indian Institute of Technology, KGP *Remote*

- Currently working on advanced deep learning techniques to generate Scanning Electron Microscope images.

**Research Intern** March 2023 - Present
Vellore Institute of Technology, VIT *Hybrid*

- Developed a novel hybrid VGG-ResNet model to detect COVID-19 from XRay images. Model achieved an accuracy of 93.67% (Paper awaiting journal submission).

**Data Scientist Intern** Jan 2023 - Present
The Indegenous *Remote*

- Created a multilingual web scraping tool from scratch which fetched approx. 150,000 data records and 6 comprehensive datasets on news articles based on indigenous peoples.

**Research Intern** Jun 2022 - Jul 2022
Indian Institute of Science *Bengaluru, India*

- Developed neural network model to detect Breast Cancer from histopathology images using deep learning. Achieved an accuracy of 80% and the model classified 27,000 samples out of 33,700 samples correctly.

## PROJECTS

**1. Real-time multimodal emotion detection using CNN and MLP** – Implemented a CNN and Multi-layer Perceptron model for multimodal emotion detection from video and audio data. Conducted in-depth research on the topic and authored a research paper (awaiting submission) presenting novel findings.

**2.Generating and Solving Mazes Using Minimum Spanning Tree Algorithms** – Developed efficient parallel algorithms in OpenMP to generate mazes using MST algorithms, and implemented shortest path algorithm for maze solving. Proposed method increased efficiency by 67.94%. Authored a research paper (awaiting review) on this novel approach.

**3. MedCare, telemedicine healthcare website** – Built a website to provide medical services, video calling, nearest doctors, and online medicine using HTML, CSS, MySQL, PHP, and Google Maps API. (GitHub Repo)

## EXTRA-CURRICULAR ACTIVITIES

- Selected for the **Microsoft Engage** Mentorship Programme 2022 and developed a blockchain-based face authentication E-Voting application. (GitHub Repo)
- Executive Board Member of IEEE Women In Engineering, VIT chapter. Organized and coordinated 50+ online events, hackathons and flagship events, ensuring smooth execution and participant engagement. Mentored and guided 150+ young women in tech.
- **Student Placement Coordinator** at the **Career Development Cell, VIT** – Coordinated and managed placement-related activities of 150+ students in the Career Development Cell, VIT.
- Secured 4th position in Hack DSC by VIT-Bhopal among 25+ teams.