AKSHATA A BHAT

+91 8088885354 Bengaluru, India
Email LinkedIn GitHub Website

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

12th Standard, VVS Sardar Patel PU College 2018 - 2020
Percentage: 96.66

10th Standard, Sri Vidya Mandir Education Society 2018
Percentage: 96.80

SKILLS

Technical Skills **Programming Languages:** Python, Java, C, PHP, JavaScript, SQL
Other: HTML, CSS, AWS, Beautiful Soup, scikit-learn, neural networks, tensorflow, Git, 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%.
- Currently working on a research paper proposing the hybrid model.

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

- Created a multilingual web scraping tool from scratch which fetched approx. 150,000 data records.
- Created 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 machine learning and neural networks. 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 parallel algorithms in OpenMP to generate mazes using Kruskal's and Prim's algorithms, and implemented Dijkstra's algorithm for maze solving. Analyzed results and wrote a research paper (awaiting submission) 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: GitHub Link)

EXTRA-CURRICULAR ACTIVITIES

- Selected for the **Microsoft Engage** Mentorship Programme 2022 and developed a blockchain-based face authentication E-Voting application.
- Selected for the **Microsoft Student Ambassador** Programme.
- Secured 4th position in Hack DSC by VIT-Bhopal among 25+ teams.
- Actively write blogs about recent trends in technology. (Blog Link: Medium Link)

LEADERSHIP

- Executive Board Member of IEEE Women In Engineering, VIT chapter. Actively involved in organizing and coordinating 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.