

# AKSHATA A BHAT

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## EDUCATION

Institution	Degree	Grade	Year
Vellore Institute of Technology, Vellore	B.Tech Computer Science and Engineering	8.45 CGPA	2020-2024
VVS Sardar Patel PU College	12th Standard	96.66%	2020
Sri Vidya Mandir Education Society	10th Standard	96.80%	2018

## SKILLS

**Technical Skills**      **Programming Languages:** Python, Java, PHP, JavaScript, SQL  
**Other:** AWS, Beautiful Soup, tensorflow, GitHub

## EXPERIENCE

**SDE Intern** Jan 2024 - Present  
Hyprbots Systems *Bengaluru, India*

- Integrating machine learning with finance and expense management.

**Product Developer Intern** June 2023 - Dec 2023  
Block Convey *Remote*

- Worked on integration of machine learning algorithms with Blockchain As A Service through Ethereum smart contracts.
- Working on integration of AutoML (GCP) with quorum.

**Data Analyst Intern** Jun 2023 - Sep 2023  
Coldpress AI *Remote*

- Scraped and analysed 500+ open source datasets from 5 sources to generate a open source repository of computer vision datasets.

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

- Developed a novel cDCGAN algorithm to generate Scanning Electron Microscope images for additive manufacturing of steel.
- Achieved an accuracy of 96.54% to the original images.

**Data Scientist Intern** Jan 2023 - Jul 2023  
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. Artify- Image Editing Website** – Developed an image-editing website using OpenCV and Flask. The user can adjust brightness, saturation, grayscale and perform rotations on the image. The website includes a text-based image editing interface. ([GitHub Repo](#))

**2. 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](#))

**3. Review Summarization** Build a project for sellers to understand their customers using NLP algorithms like LSTM, Latent semantic analysis and Hierarchical Dirichlet Allocation. ([GitHub Repo](#))

## PUBLICATIONS

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- **"Generating and solving mazes using Parallel Minimum Spanning Tree algorithms"** - paper presented at SmartTechCon 23 - IEEE Xplore indexed conference. ([Link](#))  
*Generated mazes using MST algorithms and solved it using Dijkstras algorithm. All the algorithms were parallelized using OpenMP and achieved an increase of 68% in efficiency over serial implementation.*
- **"Real Time Bimodal Emotion Recognition using Hybridized Deep Learning Techniques"** - paper presented at ICMLDE 2023. ([Link](#))  
*Implemented a CNN-LSTM and Multi-layer Perceptron model for bimodal emotion detection from video and audio data. Achieved an accuracy of 79.34 % and 77.27% in comparison to existing models.*
- **"Predictive Modelling of Water Potability using Ensemble Machine Learning Algorithms"** - paper accepted at Technoscape 23.  
*Implemented a custom stacking based ensemble model to predict water potability. Proposed model achieved an accuracy of 84.5%.*
- **"COVID-19 detection using VGG-ResNet model from Chest X-Rays"** - paper under submission to IEEE (journal).  
*Developed a novel hybrid VGG-ResNet model to detect COVID-19 from XRay images. The model achieved an accuracy of 93.67% . Presented a comparison with Auto Encoder based CNN model.*

## EXTRA-CURRICULAR ACTIVITIES

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- Selected for the **Microsoft Engage** Mentorship Program 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.
- **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.