

AKSHATA A BHAT

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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

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, PHP, JavaScript, SQL
Other: AWS, Beautiful Soup, scikit-learn, neural networks, tensorflow, GitHub

EXPERIENCE

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

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

Product Developer Intern June 2023 - Present
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.

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

- **"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.
- **"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%.
- **"Real Time Bimodal Emotion Recognition using Hybridized Deep Learning Techniques"** - paper under review at ICMLDE 2023.
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.
- **"COVID-19 detection using VGG-ResNet model from Chest X-Rays"** - paper under submission to IJIMAI (journal).
Developed a novel hybrid VGG-ResNet model to detect COVID-19 from XRay images. The model achieved an accuracy of 93.67%

EXTRA-CURRICULAR ACTIVITIES

- 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.