

MADHUMITHAA D K

 GFG Profile

 <https://github.com/Madhumithaa-27>

 <https://leetcode.com/u/OWCYnAFjty/>

 <linkedin.com/in/madhumithaadk/>

Email: madhumithaadk@gmail.com

Phone no: 9840190589

EDUCATION

2023-2027

St. Joseph's Institute Of Technology

Electronics and Communication Engineering (CGPA: 9.22/10)

EXPERIENCE

Infosys Springboard Virtual Intern (AI/ML)

Nov 2025 - Jan 2026

- Pioneered AI-Based Cat Emotion Recognition System to decode pet feelings via facial and vocal cues, fostering humane pet care and stronger owner-cat bonds during Infosys Springboard internship.
- Engineered Deep Learning models with CNNs for Computer Vision on images/videos and LSTMs for Audio Processing, delivering emotion predictions (happiness, sadness, anger, fear) with confidence scores.
- Deployed intuitive Streamlit web app for real-time uploads and insights, blending Machine Learning basics with user-centric design to empower pet owners.
- Collaborated virtually on milestones, from data prep to presentations, honing AI skills for real-world welfare applications

IByteCode Technologies (Frontend Developer)

June 2025 - July 2025

- Contributed to Care Provider Portal by building responsive React.js components for appointment and caregiver pages, delivering intuitive UX for healthcare providers.
- Enhanced accessibility with Bootstrap 5 and semantic HTML5 (XHTML), ensuring WCAG compliance and seamless cross-browser performance.
- Managed Git version control for team collaboration, implementing structured branch workflows and CI/CD practices to maintain production-ready code quality.

TECHNICAL SKILLS

- Programming:** JAVA (Intermediate), C(Basic), Python (Basic)
- Data Structures and Algorithms** in JAVA
- Cloud/DevOps:** AWS, CI/CD, Git, Docker, Jenkins, Linux, Bash
- Frontend:** HTML, CSS, JS, React.js, Bootstrap
- AI/ML :** Deep Learning, Machine Learning, Computer Vision, CNN, LSTM/RNN, Audio Processing
- Database :** SQL

PROJECTS

AI-Based Cat Emotion Recognition System

- Developed end-to-end Deep Learning pipeline fusing Computer Vision (CNNs) and Audio Processing (LSTMs/RNNs) for accurate cat emotion detection, advancing pet welfare tech.
- Created deployable Streamlit interface for multimedia analysis, providing actionable insights to help owners respond to cats' emotional needs humanely.
- Demonstrated Machine Learning deployment from concept to app, with potential for 60% accuracy on custom datasets.

AI POWERED CYBER BULLYING DETECTION AND PREVENTION PLATFORM

- Built an LLM-based detection platform using a fine-tuned BERT model to identify abusive content with 80% accuracy. Integrated Gemini AI API to suggest polite alternatives, actively preventing cyberbullying in real time. Deployed the system on AWS EC2 with secure access controls and used Reddit API for live content monitoring.
- Designed to promote safer digital communication while leveraging ethical AI practices.

AUTOSYS CARE

- Developed AutoSys Care, a fully automated Linux system maintenance toolkit that runs on cron jobs
- Integrated disk usage tracking, log analysis, and system health reporting (uptime, CPU, RAM) into lightweight Bash script for efficient server maintenance.
- Implemented SSH-based GitHub version control for secure script management, deployment, and scalability across Linux environments.

CERTIFICATIONS

- AWS Certified Cloud Practitioner
- OCI Certified AI Foundations Associate
- Web Development - Internshala
- Cloud Computing – IIT Kharagpur
- Introduction to Linux (LFS101)

ACHIEVEMENTS

- Awarded Academic Topper Cash Prize for consistent academic excellence
- Completed AWS Cloud Practitioner Challenge (2024)
- Achieved Cambridge Linguaskill B2 (CEFR Level) English Proficiency Certification