


MADHUMITHAA D K

 GFG Profile

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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
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