

Keerthi Vasan P

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PROFESSIONAL SUMMARY

Computer Science Engineering student focused on backend development, cloud systems, and applied AI. Experienced in building role-based web systems, workflow automation, and ML pipelines with deployment-oriented design and strong CS fundamentals.

EDUCATION

- **Cambridge Institute of Technology** Bangalore, India
B.E. in Computer Science(IoT and Cybersecurity including Blockchain) – CGPA: 8.57 2023 – 2027
- **Kendriya Vidyalaya No. 2 AFS Jalahalli East** Bangalore, India
Science (PCMC) – 73% 2021 – 2023

TECHNICAL SKILLS

- **Languages:** Java, Python, C, JavaScript
- **Backend:** Flask, Express.js, REST APIs, Authentication (JWT), RBAC
- **Frontend:** React.js, HTML5, CSS3
- **Databases:** MySQL, MongoDB
- **Cloud/Tools:** AWS (EC2, S3, RDS, Amplify), Git, GitHub, CI/CD, Postman, Linux, n8n
- **Core CS:** Data Structures & Algorithms, OOPS, DBMS, Computer Networks, OS

PROJECTS

- **Faculty Leave Management System (LMS) — Backend, Cloud, AWS:**
 - Built a role-based LMS with secure REST APIs, JWT authentication, RBAC, rate limiting, and multi-level approval workflows.
 - Implemented complex backend logic for leave conflict handling, substitute locking, and transactional consistency.
 - Deployed on AWS using EC2, RDS, and Amplify with optimized queries, pagination, and automated email notifications.
- **Fake Image Detection System — Deep Learning, Digital Forensics (Ongoing):**
 - Developed a CNN-based fake image detection pipeline using EfficientNet, ResNet, and Xception.
 - Achieved 80%+ accuracy, 90%+ recall, and AUC 0.85 with uncertainty rate below 5% across evaluated models.
 - Integrated Grad-CAM explainability with planned REST API deployment and robustness evaluation.
- **AI-Powered Telegram Chatbot — n8n, Gemini API:**
 - Built an AI-driven Telegram chatbot using n8n and Google Gemini for real-time query handling and API integration.
 - Automated farmer-focused workflows for weather updates, crop advisories, and scheme information.

ACHIEVEMENTS & CERTIFICATIONS

- **Conference Website Deployment (UTCA 2026):** Designed, developed, and deployed the official website for UTCA 2026 (www.utca.in), supporting conference announcements, paper submissions, and participant information with real users and production hosting.
- **Problem Solving:** Solved 100+ data structures and algorithmic problems across platforms including LeetCode, GeeksforGeeks, and HackerRank, strengthening algorithmic thinking and coding proficiency.
- **NPTEL Certification:** Completed NPTEL-certified course *Programming, Data Structures and Algorithms using Python*, demonstrating applied understanding of core DSA concepts through proctored evaluation.
- **VTU MOOC Certification:** Completed VTU-recognized MOOC *Object-Oriented System Development using UML, Java, and Design Patterns* with strong performance (91/100).