# MUKESH KUMAR K

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## EDUCATION

**KIT – Kalaignar Karunanidhi Institute of Technology, Coimbatore**          2023 – 2027
B.E – CSE (AI & ML), Pre-Final Year                                         Current CGPA: 7.89 / 10.0
**Indian Institute of Technology Madras, Chennai**                          2023 – 2027
B.S – Data Science and Applications, Diploma Level                          Current CGPA: 6.56 / 10.0

## EXPERIENCE

**Appin Technology**                                                        Jun 2025 – Jul 2025
*Full Stack Developer Intern*
- Built and scaled production-grade MERN applications, delivering reliable end-to-end functionality across frontend and backend.
- Designed and implemented secure REST APIs with JWT authentication, improving backend performance and system robustness.
- Developed responsive, high-performance React interfaces using reusable, modular component architecture.
- Optimized MongoDB data models and queries to achieve low-latency, high-reliability data operations.

## PROJECTS

**DeskJockey — Enterprise-Grade Productivity Platform**                     Nov 2025
• Built a scalable MERN platform handling 45K+ daily events with P95 < 80ms latency.
• Designed an AST-based rule engine and real-time sync layer, improving adherence by ~37% with sub-50ms updates.
• Optimized backend using Redis caching and AI micro-coach insights, reducing latency by 28%.
**Tech Stack:** *MongoDB, Express.js, React.js, Node.js, REST APIs*

**AI Calorie Tracker — Production-Scale Nutrition Intelligence**            Dec 2025
• Developed an AI calorie engine processing 120K+ images with P99 < 110ms inference latency.
• Built a robust classification and ingestion pipeline supporting 10M+ monthly operations with 92%+ consistency.
• Implemented gamification and AST-based portion parsing, improving retention by 54% and accuracy by 27%.
**Tech Stack:** *MongoDB, Express.js, React.js, Node.js, REST APIs*

## TECHNICAL SKILLS

| | | | |
|---|---|---|---|
| Python | React.js | VS Code | MongoDB |
| JavaScript | Node.js | Git | Firebase |
| REST APIs | Express.js | GitHub | Supabase |

## CERTIFICATIONS

Design Thinking - **NPTEL**
Python Essentials 1 - **Cisco**
Certificate of Achievement — Python Foundation Certification - **Infosys Springboard**
Certificate of Achievement — Artificial Intelligence Foundation Certification - **Infosys Springboard**
Certificate of Achievement — Internet of Things Foundation Certification - **Infosys Springboard**

## COMPETITIVE PROGRAMMING

**LeetCode :** Contest Rating: 1501 | Solved Problems: 232+ | Top 43.55% Globally | Badges: 3 | Global Rank: 587178
**CodeChef :** Rating: 1508 (Div 3) | Stars: 2★ | Problems Solved: 231 | Global Rank: 26565 | Country Rank: 24290

## ACHIEVEMENTS

- Attained CodeChef Division 3 with a 2★ rating, demonstrating competitive programming proficiency and algorithmic rigor.
- Solved 463+ DSA problems across LeetCode (232+) and CodeChef (231), reflecting sustained problem-solving consistency.
- Published a peer-reviewed research paper at ICCCSS'25 (ScitePress) on signal-level forecasting and pollution monitoring for smart traffic systems.
- Secured a Top-10 finish in CodeSmash 2025, a competitive programming contest, highlighting strong analytical and coding skills.
- Earned multiple prizes and medals at technical symposiums, recognizing technical excellence and competitive performance.

## VOLUNTEERING

**Executive Committee Member – Department Association**
Drove planning and execution of technical seminars, workshops, and student development initiatives, improving participation and cross-team coordination.
**Executive Officer – Department Association**
Led coordination of departmental events and student activities, streamlining operations and boosting student engagement.