

# ADARSH S KUMAR

**Email:** [adarshskumar30012002@gmail.com](mailto:adarshskumar30012002@gmail.com)

**Phone:** +91 9895319990

**LinkedIn:** [linkedin.com/in/adarshskumar30](https://www.linkedin.com/in/adarshskumar30)

**GitHub:** [github.com/Adarsh30012002](https://github.com/Adarsh30012002)

## Professional Summary

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Motivated and goal-oriented B.Tech student in Computer Science and Engineering with a strong interest in software development and innovation. Experienced in contributing to a variety of impactful projects that address real-world challenges through creative problem-solving and technology-driven approaches. Demonstrates a consistent commitment to learning, adapting, and improving, with a deep curiosity for how systems work and how they can be optimized. Dedicated to applying theoretical knowledge in practical scenarios, collaborating effectively with peers, and maintaining high standards of accuracy, efficiency, and accountability.

## Education

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| <b>College of Engineering Trivandrum</b><br><i>Bachelor of Technology (B.Tech) – Computer Science and Engineering</i> | <b>2021 – 2025</b><br><i>CGPA: 6.98</i> |
| <b>Prem Nazir Memorial Govt. HSS, Koonthalloor</b><br><i>Higher Secondary Education</i>                               | <b>2018 – 2020</b><br><i>96.75%</i>     |
| <b>Sr. Elizabeth Joel CSI EM HSS, Attingal</b><br><i>Secondary School Leaving Certificate (SSLC)</i>                  | <b>2017 – 2018</b><br><i>100%</i>       |

## Projects

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### Jolly Audience – Video Emotion Extractor

- Engineered a full-stack video analysis tool using **React.js**, **Flask**, and **OpenCV** that detects and extracts smiles from event recordings with over **92% accuracy**.
- Processed videos at a speed of **10 frames/second** using **Haar Cascade Classifiers**, achieving a **35% reduction in analysis time** compared to baseline implementations.
- Created a web UI supporting uploads of up to **500MB** per file with real-time detection feedback and selective download of up to **25 highlight clips per video**.

### Predictive Maintenance & False Fire Alarm Detection System

- Developed an ML-based predictive maintenance system using **scikit-learn** to classify failures from over **15,000 sensor readings**, improving prediction accuracy by **28%**.
- Integrated fire alarm detection, achieving **95% precision** in distinguishing false alarms, and reducing unnecessary evacuations by **over 40%**.
- Built a responsive web interface with **Materialize CSS** and **Flask** to handle **1,000+ daily inputs** from industrial users .

### Gmail Summarizer – Email Compression Tool

- Created an email assistant using **Flask**, **Google Gmail API**, and **Openai API** to summarize content of emails up to **1,000 words** in less than **3 seconds**.
- Reduced email reading time by **up to 65%** for users handling over **100 emails per day**, increasing productivity and message clarity.
- Handled secure OAuth 2.0 authentication and processed more than **5,000 emails** during pilot testing with **98.7% summary relevance**.

## Employee Management System – DBMS Project

- Designed and deployed a full-featured employee database management system using **Flask** and **PostgreSQL**, streamlining HR processes across departments and roles.
- Enabled full CRUD functionality with validation layers for managing employee profiles, positions, skills, and project assignments securely and efficiently.
- Implemented a scalable backend architecture with relational data modeling, resulting in a **50% reduction** in manual tasks.

## Technical Skills

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- **Programming Languages:** Python, C/C++, Java (basic)
- **Web Development:** HTML, CSS, JavaScript, React.js, Flask, Django
- **Databases:** MySQL, PostgreSQL

## Leadership and Extracurricular

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- Volunteer – Dhvani and Drishti, College of Engineering Trivandrum
- Volunteer – Dot Slash Technical Fest

## Certifications

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- The Joy of Computing using Python – NPTEL
- Web Development Bootcamp – Devtown