

# Akash Kumar

Software Development & Automation | Full-Stack Developer | Sensors and IoT Technologies

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## SUMMARY

Passionate AI & ML Engineer with a strong foundation in machine learning, deep learning, and data-driven solutions. Skilled in developing and optimizing predictive analytics models, computer vision applications, and intelligent automation systems. Proficient in Python, TensorFlow, OpenCV, SQL, and full-stack development using Django/Flask and React.js.

Successfully built and deployed AI-driven projects, including an AI-powered Traffic Violation Management System, Handwritten Digit Recognition, and Pepper Age & Yield Prediction, improving efficiency in various domains. Adept at leveraging machine learning algorithms, NLP, and automation to solve complex real-world challenges. Constantly exploring emerging AI technologies to drive innovation and create impactful solutions.

## EXPERIENCE



### AI & ML Project

**Sahyadri College of Engineering & Management**

09/2024 - 12/2024 Mangalore, India

Led a team of developers in designing and implementing innovative AI-driven solutions.

- Designed a Pepper Age & Yield Prediction system using SVR and Neural Networks, enhancing agricultural decision-making.
- Built a Handwritten Digit Recognition model using CNN, achieving high accuracy in digit classification.
- Developed a new scheduling system, reducing project completion times by 10%.



### Full-Stack Project

**Sahyadri College of Engineering & Management**

10/2024 - 11/2024 Mangalore, India

Worked on the design and implementation of a Student Project Management System using MySQL, Node.js, and JavaScript to streamline project tracking and evaluation.

- Designed and developed a Student Project Management System using MySQL, Node.js, and JavaScript to streamline project tracking and evaluation.
- Implemented CRUD operations for managing student and faculty data, ensuring seamless project submissions and assessments.
- Integrated role-based authentication for students and faculty, enhancing system security and usability.
- Utilized triggers in MySQL to automate project status updates and maintain data consistency.

## EDUCATION



Bachelor of Engineering (B.E.) – Computer Science and Engineering

**Sahyadri College of Engineering & Management**

2022 - 2026 Mangalore, India

GPA

9.02 / 10



Pre-University Education (11th & 12th) – PCMB

**Govinda Dasa College**

2020 - 2022 Mangalore, India

GPA

9.6 / 10

## SKILLS

Python Java C/C++ OpenCV

PyTorch MySQL SQL Plus

Firebase Git/GitHub Postman

Jupyter Notebook Data Visualization

TensorFlow CAD (Solidworks) NLP

## MATLAB

## STRENGTHS

### Innovation Enthusiast

Adept at leveraging emerging technologies for innovation.

### AI Efficiency Expert

Expert in developing efficient AI-driven solutions.

### Full-stack Development

Proficient in full-stack development and integration.

### Data-driven Decision Making

Skilled in data-driven decision making for real-world challenges.

## KEY ACHIEVEMENTS

### Pepper Age & Yield Prediction AI

Used Support Vector Regression (SVR) and Neural Networks to enhance agricultural decision-making, improving crop yield estimation accuracy.

### Designed and Deployed a Student Project Management System

Implemented a MySQL and Node.js-based platform to streamline project tracking, evaluation, and role-based authentication for students and faculty.