

# 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


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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%.
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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

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

Sahyadri College of Engineering & Management

2022 - 2026 Mangalore, India

GPA 9.02 / 10
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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

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Innovation Enthusiast

Adept at leveraging emerging technologies for innovation.
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Ai Efficiency Expert

Expert in developing efficient AI-driven solutions.
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Full-stack Development

Proficient in full-stack development and integration.
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Data-driven Decision Making

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

## KEY ACHIEVEMENTS

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Pepper Age & Yield Prediction AI

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