

# AKASH HANMANT RAO

## Full Stack Developer

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### Summary

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Motivated and detail-oriented Full Stack Developer with a strong foundation in frontend and backend technologies, as well as data structures, algorithms, and problem-solving. Proficient in JavaScript, React.js, Node.js, Express.js, MongoDB, and Python, with experience building responsive, scalable web applications. Adept at integrating APIs, optimizing performance, and ensuring seamless user experiences across platforms. Passionate about creating efficient, maintainable code and contributing to innovative, data-driven projects that deliver real-world impact.

### Skills

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**Programming & Querying:** HTML5, CSS3, React.js, Tailwind CSS, Node.js, Express.js, MongoDB, REST APIs.

**Data Visualization Tools:** VS Code, Cursor, Postman, Git/GitHub.

**Technical Abilities:** Full Stack Development, RESTful APIs, Object-Oriented Programming (OOP), Debugging & Optimization, Problem Solving, Responsive Design Node.js, Express.js, MongoDB, REST APIs.

### Experience

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#### AIML Intern

August - 2025 – Present

JIEF (On-site)

Tools Used: VS Code, Cusor, Colab, TensorFlow/PyTorch

- Developed and fine-tuned machine learning models for tasks such as classification and prediction using Python.
- Implemented data preprocessing pipelines including cleaning, feature engineering, and visualization of large datasets.
- Experimented with deep learning architectures (CNNs/RNNs) and optimized hyperparameters to improve model accuracy.
- Deployed models into a prototype application and documented results to support decision-making.

### Projects

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#### My Portfolio | React, Typescript, CSS

June 2025

- Built a dashboard to track academic metrics—e.g. student attendance, grades, and assignment submissions—for multiple classes.
- Implemented dynamic charts and tables (bar, line, pie) to visualize performance over time.
- Enabled role-based access (admin, teacher, student) so each sees relevant data and controls..
- Optimized responsive design for desktop and mobile, with filtering and search features for quick data lookup.
- [Click here to visit Portfolio](#)

#### Real-Time Face Blur | OpenCV, Python

August 2025

- Developed a computer vision application to detect and blur faces in live webcam streams using OpenCV.
- Implemented Haar Cascade-based face detection with real-time frame processing at 20-25 FPS.
- Applied Gaussian blur on detected regions to anonymize identities and ensure privacy.
- Enhanced accuracy by handling multiple faces simultaneously and optimizing frame-by-frame processing.

### Awards & Certifications

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- **Build with AI: Creating AI Agents with GPT-5:** Learned to design, build, and deploy intelligent AI agents powered by GPT-5 for real-world applications.
- **Getting Started as a Full-Stack Web Developer:** Gained hands-on experience in building and deploying full-stack web applications using front-end, back-end, and database technologies.
- **Prompt Engineering with Gemini:** Learned advanced prompt engineering techniques to optimize and customize responses from Google's Gemini AI models.

### Education

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#### B.E Computer Science and Engineering

Graduated: 2026

Jain College of Engineering, Belagavi

CGPA: 8.5 / 10