

# Vijay Kumar Prajapati

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## Professional Summary

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Aspiring **Full Stack Developer** with expertise in **Backend** and **Frontend Development**. Proficient in Java, DSA, and modern front-end technologies. Passionate about AI/ML and software development, seeking opportunities to contribute to innovative projects and drive measurable improvements.

## Education

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**R. V. College of Engineering**, Bangalore, Karnataka  
B.E. in Electronics and Communication Engineering

2022 – 2026

## Professional Experience

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**Samsung**, Bangalore, Karnataka  
*Research Intern*

August 2024 – Present

- Collaborating with the AI/ML and video processing team on noise synthesis projects.
- Designed a conditional GAN model that achieved 70% accuracy in generating realistic noisy images.
- Reduced video processing latency by 15% through optimized YUV encoding/decoding techniques.
- Increased data throughput by streamlining dataset preparation processes, handling a 30GB dataset efficiently.

## Projects

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**Noise Synthesis in AI/ML – Samsung Research Intern Project**

2024

- Developed a conditional GAN model with controlled grain intensity achieving 70% accuracy.
- Improved video compatibility by implementing efficient YUV encoding/decoding, reducing error rates by 20%.
- Curated a 30GB dataset with diverse CRF values, enhancing training and validation processes.
- Utilized FFmpeg for seamless YUV format reconstruction, cutting processing time by 10%.

**Community Nexus**

2024

- Built a mobile application supporting UN SDG 11, reaching over 1,000 active users within the first 3 months.
- Implemented multilingual interfaces, AI-driven voice assistance, and geolocation-based resource discovery, resulting in a 25% increase in user engagement.
- Developed using Kotlin and Node.js for robust scalability, security, and real-time updates.

## Technical Skills

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**Programming Languages:** JavaScript, Java, Python, Kotlin

**Frameworks & Libraries:** React, Node.js

**Web Development:** HTML, CSS, React

**Software Development:** OOP, DSA, RESTful APIs, Database Management, Agile/Scrum

**AI/ML:** Basics of ML, Noise Synthesis

**Tools:** Git, VS Code, Google Cloud

## Soft Skills

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Teamwork & Collaboration, Problem Solving & Critical Thinking, Adaptability & Flexibility, Communication & Interpersonal Skills, Creativity & Innovation, Time Management & Organization

## Certifications

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Intel GenAI Hackathon 24, Programming using Java, Blockchain for Enterprises, Google Cloud Computing Foundation, Web Development

## Languages

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English, Hindi