

# Gokul Kiran

## Full Stack Developer | AI-Integration

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

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Full Stack Developer with hands-on experience building **AI-integrated** web applications using React.js, Next.js, Node.js, and AWS. Skilled in deploying cloud-native, scalable solutions with **OpenAI GPT-4o, Pinecone, and PostgreSQL**. Passionate about delivering high-performance software that combines intelligent automation with user-centric design.

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## SKILLS

- Front-end: HTML, CSS, JavaScript, TypeScript, React, Next.js, Tailwind CSS
  - Back-end: Node.js, Express, Django, Flask
  - Databases: PostgreSQL, MySQL | API Integration: RESTful API, OpenAI API (GPT-4o), Neon PostgreSQL
  - DevOps: AWS (S3, Lambda), Serverless deployment, Vercel, CI/CD, Docker
  - AI/ML: Python, scikit-learn, TensorFlow.js, RAG pipelines
  - Tools: Git, GitHub, Cursor, Windsurf, VS Code Copilot, GSAP
  - Soft Skills: Analytical thinking, Problem-solving, Communication, Adaptability
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## PROJECTS

### AI-Powered Document Intelligence Platform ( RAG with GPT-4o & Pinecone ) - [Live Demo Website Link](#)

- Launched a full-stack RAG AI knowledge base app allowing users to query uploaded PDFs/text files using GPT-4o and Pinecone-powered semantic search. Integrated APIs: **OpenAI API, Pinecone, Neon PostgreSQL**.
- Developed a modern, responsive UI using **Tailwind CSS and GSAP**, and deployed the solution on **Vercel** for scalable performance.
- Enhanced embedding accuracy and **retrieval relevance by 35%** through an optimized chunking strategy and OpenAI embedding models in Pinecone.

### Serverless Video Captioning App ( OpenAI Whisper ) - [GitHub Repository Link](#)

- Built a serverless video captioning app using OpenAI Whisper API with AWS Lambda and **S3 event-driven architecture** for scalable processing.
- Designed a responsive UI with **Next.js** to support video uploads, playback, and downloadable transcripts in a user-friendly workflow.
- Improved transcription **speed by 40%** through optimized, S3-triggered Lambda functions.

### News Next.js App with AI Summary ( GPT-4o ) - [Live Demo Website Link](#)

- Deployed a dynamic news platform using Next.js and GPT-4o to display real-time news with AI-generated summaries and keyword extraction. Applied Jaccard similarity to remove duplicate articles.
  - Implemented search functionality **with a 50% relevance threshold** using a **Jaccard similarity filter** to guarantee best-match results and eliminate duplicates.
  - Optimized rendering efficiency and SEO by utilizing `getServerSideProps`, `React.memo`, and deployed on Vercel.
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## CERTIFICATION

- Full Stack Web Development Bootcamp
  - Vibe-Coding: AI Driven Software Development and Testing
  - AWS: Deploy Web Apps on the Cloud
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## EDUCATION

**Bachelor of Engineering in Computer Science: CGPA - 8.3**

Anna University : Misrimal Navajee Munoth Engineering College