K. L. V. Sumanth

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Summary

Full Stack Web Developer with expertise in both front-end and back-end development. Passionate about building scalable systems, experimenting with machine learning, and exploring modern UI/3D interfaces. Strong foundation in Data Structures and Algorithms, problem-solving, and backend engineering. Also interested in AI/LLMs, and personal fitness.

Technical Skills

Front-end: JavaScript, React.js, Redux, Next.js 13
Back-end: Node.js, Express.js, TypeScript
Databases: PostgreSQL, SQL, MongoDB, RDBMS
Machine Learning: Regression, Classification (ML Algorithms), CNN
Security/Auth: JWT
Other Interests: Cloud , 3D UI, AI/LLM development

Projects

Fake Currency Detection using CNN (Major Project)

- Designed an interactive web interface using HTML and CSS.
- Implemented backend in Python to process and classify images using CNN.
- Built end-to-end pipeline for detecting counterfeit currency.

Fake Currency Detection using CNN (Major Project)

- Developed an automated system to distinguish between genuine and counterfeit currency notes using Convolutional Neural Networks (CNNs).
- Designed a simple and interactive frontend using **HTML & CSS** for uploading currency images.
- Implemented backend in **Python (Flask/Django)** to handle image input and model integration.
- Trained a **CNN model** on a dataset of genuine and fake currency images; preprocessing included grayscale conversion, resizing, and noise reduction.
- Achieved reliable classification of notes as **Real or Fake**, improving security and reducing dependence on manual verification.
- Strengthened skills in **Computer Vision, Deep Learning, and Full Stack Integration**.

Morse Code Translator (Python)

- Developed a Python tool that converts English text into Morse code and vice versa.
- Implemented simple UI for easy user interaction.

Programming Languages

C++, Java, Python

Data Structures & Algorithms

Sorting, Searching, Recursion, Dynamic Programming (DP), Graphs, Problem-solving.

About Me

- Enthusiast in AI/LLM development — building "Chinni AI" to rival advanced models like GPT/Gemini.
- Preparing for backend engineering interviews (Uber, Zoho, etc.).
- Exploring advanced UI with 3D avatars, voice integration, and immersive web experiences.
- Passionate about personal fitness, weight optimization, and health.
  - Enthusiast in **AI/LLM development** — currently building "Chinni AI" to rival advanced models like GPT and Gemini.
  - Preparing for **backend engineering interviews** (Uber, Zoho, etc.), with strong focus on scalable systems.
  - Passionate about **problem-solving and DSA** (Dynamic Programming, Graphs, Recursion).
  - Exploring **advanced UI/3D/voice integration** for immersive user experiences.
  - Strong interest in **cloud computing and DevOps** (RunPod, AWS, Docker-based deployments).
  - Keen on **health, fitness, and nutrition**, balancing tech skills with personal well-being.
  - Curious learner — constantly experimenting with new technologies, frameworks, and AI tools.
  - Believer in building solutions that are not only functional but also **impactful and user-friendly**.