

Yashwanth Chikki HD

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Skills

Programming Languages: Python, JavaScript (ES6+), Java, SQL, HTML5, CSS3, JSON

Frontend Development: HTML5, CSS3, JavaScript (ES6+), Fetch/Axios, React.js, Streamlit

Backend Development: Node.js, Express.js, FastAPI, Flask, RESTful API Design, WebSockets, WebRTC, JWT Authentication, Async Programming, Error Handling, API Rate Limiting, Request Validation, custom middlewares

Database & Storage: MongoDB, SQLite, MySQL, PostgreSQL, Aggregation Pipelines, Indexing & Query Optimization, Data Modeling, Caching (Redis), JSON Document Handling

Machine Learning & Recommendation Systems: Pandas, NumPy, Scikit-learn, TensorFlow, Deep Learning, NLP, Recommendation Engines (Collaborative & Content-based), Feature Engineering, Data Preprocessing, EDA

Generative AI & RAG: LangChain, Vector Databases (FAISS, Chroma), RAG Pipelines, Gemini API Integration

DevOps & Deployment: Docker, Git, GitHub Actions (CI/CD), Cloud Deployment (AWS EC2/S3, RAILWAY), API Hosting, Environment Configuration, Version Control

Tools & Workflow: VS Code, Jupyter, Clients (Postman, Thunder), Linux, API Testing, Logging & Debugging

Experience

Fidelity Investments – Apprentice, Analytics & ML – Bangalore, Karnataka Feb 2025 – Present

- Developed 4 ML tools (CES predictor, intent classifier, page/advisor ranking systems) with Streamlit; engineered feature pipelines and deployed models to guide prioritization and resource allocation.
- Designed dynamic ranking interfaces with scenario simulation logic; provided actionable insights from correlation analysis to product and design teams.

Innosights Soft Solutions – Machine Learning Intern – Bangalore, Karnataka Feb 2024 – Apr 2024

- Achieved 94.2% validation accuracy through a CNN model for plant disease detection on a 61,486-image dataset, reducing manual diagnosis time by 80%.
- Enhanced model performance by 15% via data augmentation and normalization; integrated REST APIs with Flask for real-time inference with 200ms response time during deployment.

Projects

Vendo – Real-time Messaging Application [Code](#)

- Full-stack messaging platform (Node.js) with real-time WebSocket text chat and WebRTC audio/video calling independent of phone numbers.
- Implemented symmetric encryption, JWT authentication, Docker deployment for scalable, reliable messaging.

Citizen – Short-form News Streaming Platform [Code](#)

- Microservices architecture (Node.js, React, MongoDB + MySQL) with collaborative filtering recommendation engine, RAG pipeline for on-demand article curation, and semantic search for intelligent content discovery.
- Implemented AWS S3 direct video streaming with infinite scroll pagination; optimized for scale and low-latency delivery.

Clicko - URL Management and Conversion Analytics [Code](#)

- Built URL shortener (Node.js, Express, MongoDB) with TTL expiration, event tracking pipeline, and MongoDB aggregation pipelines for real-time analytics and conversion funnels.
- Implemented location tracking with GeoIP, rate limiting, and time-based expiration; optimized database indexing on high-cardinality fields for sub-second query performance on the analytics dashboard.

Education

B.E., Artificial Intelligence & Machine Learning Dec 2020 – Jun 2024

Dayananda Sagar College of Engineering – Bangalore, India