

# Yashwanth Chikki HD

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## Skills

**Languages:** JavaScript, Python, Java, SQL

**Frontend:** React.js, HTML5, CSS3, Streamlit

**Backend:** Node.js, Express.js, FastAPI, Flask, RESTful APIs, WebSockets, WebRTC, JWT

**Databases:** MongoDB, PostgreSQL, MySQL, SQLite, Redis

**ML/AI:** Pandas, Scikit-learn, NumPy, TensorFlow/Keras, PyTorch (basic), CNNs, Image Processing (OpenCV), NLP, Transformers (HuggingFace), LangChain, RAG Pipelines

**DevOps:** Docker, Git, GitHub Actions, AWS (EC2, S3), CI/CD

## 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

**Three-State Counter (NPM Package)**

[NPM](#) | [Code](#)

- Published production-ready Node.js counter library with dual-mode architecture (sync/async) achieving 100,000+ ops/sec while maintaining crash safety through write-ahead logging and SQLite persistence.
- Implemented intelligent batching and recovery mechanisms; actively maintained with comprehensive documentation and test coverage for enterprise use cases for temporary/small scale applications.

**Vendo – Real-time Messaging Application**

[Code](#)

- Full-stack messaging platform (Node.js) with real-time WebSocket text chat and WebRTC audio/video calling.
- Implemented JWT authentication, symmetric encryption, Docker deployment for scalable, reliable messaging.
- Added integrated order-management flows (order creation, status updates, confirmations) directly inside chat to enable conversation-driven transactions.

**Citizen – Short-form News Streaming Platform**

[Code](#)

- Microservices architecture (Node.js, React, MongoDB + sqlite) 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 optimized for scale and low-latency .

**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;

## Education

**B.E., Artificial Intelligence & Machine Learning**

Dec 2020 – Jun 2024

Dayananda Sagar College of Engineering – Bangalore, India