

# Yashwanth Chikki HD

yashwanthchikkihd@gmail.com | 8618510937 | [GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## Skills

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

**Frontend Development:** HTML5, CSS3, JavaScript (ES6+), DOM Manipulation, Responsive UI Design, Fetch/Axios for API Integration, 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, PostgreSQL, SQLite, MySQL, 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, Netlify), API Hosting, Environment Configuration, Version Control

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

## Experience

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**Apprentice – Analytics & ML**, Fidelity Investments – 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.

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

- Implemented CNN for plant disease detection on 60k images-dataset, compared multiple architectures, enhanced generalization with data augmentation and normalization, and achieved high validation accuracy.
- Integrated the model into Flask app for near real-time inference with preprocessing and confidence thresholds.

## Projects

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**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 point redemption system with optimistic locking; designed multi-layer caching (Redis with TTL) and database indexing on high-cardinality fields for sub-second query performance on analytics dashboard.

## Education

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**B.E., Artificial Intelligence & Machine Learning** Jun 2024

Dayananda Sagar College of Engineering – Bangalore, India