

RATIKESH KUMAR SINGH

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Teacher's Colony, Banashankari Stage II, Bangalore-560070, India

EDUCATION

BNM Institute of Technology

B.E. in Artificial Intelligence and Machine Learning

CGPA: 8.66

2021-2025

EXPERIENCE & WORK HISTORY

Software Engineer

June 2025 – Present

Clodexa

Bangalore, India

- Consolidated and migrated multiple codebases to establish a unified platform architecture powering all Clodexa products.
- Designed and implemented a seamless user onboarding experience that intelligently promotes cross-product adoption and drives upselling opportunities.
- Enhanced the dashboard interface by reorganizing data presentation to improve clarity, accessibility, and user comprehension of key metrics.

Founding Engineer

March 2025 – May 2025

Clodexa

Bangalore, India

- Developed an AI-driven Chrome extension (**Evon**) using Playwright, Puppeteer, and FastAPI to automate lead enrichment via LLM-guided browser actions, including dynamic form submissions and DOM manipulation.
- Built a high-intent lead generation system using Selenium, BeautifulSoup, and GPT-4 to scrape data from LinkedIn/Discord, assign intent scores, and deliver enriched leads through a FastAPI-backed dashboard.
- Architected a middleware layer to convert LLM-generated tasks into executable browser workflows, enabling autonomous prospect research and reducing manual effort in sales operations.

Coding Expert for AI Training (Freelance)

March 2025 – Present

Outlier AI

Remote

- Contributing to the training and refinement of AI coding models by providing high-quality code samples and technical feedback.
- Specializing in JavaScript, TypeScript, HTML, CSS, and Python-based code training datasets.

Full Stack Developer Intern (Founding Team)

September 2024 – February 2025

Clodexa

Bangalore, India

- Part of the founding team, contributing to the company's growth from 0 to \$100K ARR within 3 months.
- Engineered AI-powered solutions, including sales automation tools, lead scraping models, and browser extensions, leveraging NLP, automation, and full-stack development.

PROJECTS

AI-Powered Browser Automation for Prospect Research – Evon (Clodexa) — Playwright, Puppeteer, FastAPI

2025

Developed a Google Chrome extension to automate lead enrichment using JavaScript-based browser control, including event handling and form submissions. Built a middleware action list generator for seamless interaction between an LLM and the Chromium extension, streamlining prospect research workflows.

Diabetic Retinopathy Prediction Model – Final Year Project (BNMIT) — GAN, CNN, GPT-4o, MongoDB, AWS

2025

Built a medical image analysis model achieving 97% accuracy in detecting diabetic retinopathy using GANs and CNNs, with GPT-4o for rapid report generation. Designed a frontend for uploading patient data and integrated backend APIs for cloud storage and automated diagnostics using MongoDB, Cloudinary, and AWS S3.

High Intent Lead Scraping Model – Intent Lead Generation (Clodexa) — BeautifulSoup, Selenium, FastAPI, GPT-4

2024

Created web scraping pipelines to extract high-quality leads from LinkedIn and Discord using BeautifulSoup and Selenium. Enhanced targeting by integrating GPT-4 to analyze data, assign intent-based scores, and generate insights. Developed FastAPI backend and an intuitive UI to display enriched leads.

AI Sales Agent for Inbound & Outbound Calls – HeyReplai (Clodexa) — ElevenLabs, OpenAI, Twilio, FastAPI

2024

Designed a voice-based AI sales agent using ElevenLabs and OpenAI to simulate human-like speech with natural fillers. Improved LLM understanding through prompt engineering, leading to context-aware responses. Built APIs and a structured frontend, achieving a 25% increase in sales conversions.

SKILLS

Languages & CS Fundamentals: TypeScript, Python, Java, JavaScript, HTML, CSS, Data Structures, Algorithms, OOP, Complexity Analysis

Frameworks & Tools: React, Next.js, TailwindCSS, FastAPI, Flask, Docker, Git, GitHub Actions, Postman, Playwright, Puppeteer, Selenium, BeautifulSoup

Cloud & Databases: AWS (EC2, S3), Google Cloud, Vercel, Heroku, Supabase, PostgreSQL, MongoDB, MySQL

AI/ML & System Design: OpenAI (GPT-4, GPT-4o), DeepSeek, ElevenLabs, Prompt Engineering, LLM Fine-tuning, GANs, CNNs, REST APIs, WebSockets, Microservices, OAuth