

# Akshat Kotpalliwar

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

## EDUCATION

- **B.Eng. in AI and Data Science** 2022 – 2025  
*D.Y Patil College of Engineering, Akurdi* CGPA 6.5
- **Diploma in Electronics and Telecommunication** 2019 – 2022  
*Government Polytechnic Nagpur* 81%

## EXPERIENCE

- **Backend Developer Intern** Feb 2024 - Dec 2024  
*Pune, India*
  - Engineered scalable financial APIs using Node.js and Express, significantly enhancing performance and reliability.
  - Led the migration of legacy applications to RHEL, resulting in improved system stability and operational efficiency.
  - Developed and optimized CI/CD pipelines, reducing deployment time by 30% and increasing development agility.

## PROJECTS

- Fenrir [GitHub](#)
  - Developed a self-hosted platform that automates the containerization, deployment, and monitoring of JavaScript/TypeScript applications, with integrated features such as automatic SSL certification and DNS management.
  - Utilized a tech stack including Node.js, PostgreSQL, RHEL, Nginx, Redis, Cloudflare, and TypeScript to build a scalable and efficient solution.
- Netflix Recommendation System [GitHub](#)
  - Developed a web application using Node.js and Express to provide personalized movie recommendations based on user inputs.
  - Implemented a Python-based recommendation engine, utilizing cosine similarity to compare user preferences and provide accurate suggestions.
  - Enhanced system performance by optimizing the code to handle concurrent requests, resulting in a 90% improvement in response time.

## OPEN-SOURCE

- Hasty Server 1,500+ Downloads | [GitHub](#)
  - Developed a high-performance, lightweight web framework, featuring a custom JSON parser and Cross-Origin Resource Sharing (CORS) implementation, inspired by Express.js.
  - Engineered a custom HTTP/1.1 protocol over raw TCP sockets, optimizing the framework for low-latency, high-performance communication.
- Fingerprint-OSS 1,500+ Downloads | [GitHub](#)
  - Developed a client-side library for collecting user data efficiently, with an emphasis on minimal performance overhead.
  - Optimized the library for speed and resource efficiency, leading to 1,500+ downloads.
- Disposable Email Detector 110,000+ Downloads | [GitHub](#)
  - Created a Node.js tool for detecting disposable email addresses to prevent fake sign-ups and improve data quality.

## SKILLS

- JavaScript, TypeScript, C++, Node.js, Express.js, React, HTMX, GCP (Cloud), Docker, Podman, CI/CD, Git, Postman, Linux, SQL/NoSQL

## AWARDS

- Received 80+ GitHub stars for open-source contributions, demonstrating community recognition.  
Managed NPM packages with more than 120,000 downloads, showcasing widespread adoption.  
Achieved a combined total of 60,000+ blog impressions, highlighting the reach and impact of published content.