

# Atharva Rakshak

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## SUMMARY

Professional experience in developing flow-based automation and streamlining project execution for better operational outcomes. Enjoy solving real-world problems by combining creativity with efficient, practical solutions. Often find myself diving into the world of LLMs, constantly exploring new models and experimenting with fine-tuning. Always curious and passionate, exploring new tools and technologies to make things work smarter and automate them.

## EDUCATION

**Shri Ramdeobaba College of Engineering and Management** June 2026  
*BTech. Computer Science(AIML)* Current CGPA: 9.41/10.0

## EXPERIENCE

**Vruksh Ecosystem Foundation** | *Software Development and Devops Intern* June 2024 - March 2025

- Integrated and deployed ML models (SadTalker, CogXVideo, Hallo-WebUI) to streamline tasks by 40%.
- Designed a **SaaS** tool using React Flow for dynamic website scraping with features like **CRON jobs**, Credits Management system and **OpenAI**-based data extraction.
- Optimized CI/CD workflow using **Jenkins** Declarative Pipeline, reducing Docker build and deployment time by **30%** through end-to-end automation.
- Implemented **Azure Cognitive Service SDK** to build a TTS chatbot for AI-enabled plushy toys.
- Deployed pretrained chatbot models on **AWS SageMaker** using scalable endpoints to enable real-time, managed inference for conversational AI Chatbot.

## COURSEWORK

**Courses:** Object-Oriented Programming, Data Structures & Algorithms, Python Programming, Full Stack Web Development, Operating System, Computer Networking, Digital Electronics and Artificial Intelligence.  
**Certificate:**1. Google Cloud Study Jams(GDSC) 2. JNCIA cloud computing 3. Hackbyte 2.0 certificate.

## SKILLS

**Languages:** C/C++(DSA), Python, Java, JavaScript, HTML/CSS, Typescript, Nextjs, React.  
**Tools:** Git/GitHub, Vercel, FastAPI, Docker, Jenkins, Next-Auth, AWS(S3, EC2, VPC) .  
**Frameworks:** React, Node.js, Django, Express, Flask, Next.js.  
**Machine Learning:** Tensorflow, Pytorch, Scikit-learn, Explainer Dashboard, HuggingFace, Replicate.  
**Database:** SQL, PostgreSQL, DynamoDB, AWS Redshift, AWS Glue.

## PROJECTS

**Scrapeflow** | *Nextjs, Curio, Puppeteer, CronJob, Openai, Prisma* Jan. 2025

- Scrapeflow** is a web-based automation tool built using **React Flow**, designed for scraping dynamic websites .
- Enables users to visually create scraping workflows and enhance data retrieval in a gamified manner.
- Leverages Azure-deployed **OpenAI** to generate selectors from HTML text processed by **Curio**, simplifying the scraping process.
- Flexible editor that allows developers to customize and extend functionality for scraping activities.

**Online Marketplace** | *Django, AWS, Git, SQL, Jinja, Docker, Tailwind* Aug. 2022

- Puddle** is an online shopping platform built using renowned backend framework **Django**.
- Clean, well formatted and self documenting code that follows all software development principles, with clear and concise documentation .
- Dockerized** the Django application and deployed it on **Render** .
- Designed **Continuous Integration pipeline** using **Github actions** and **tower** .
- Deployed application on ECS using ECR and hosted a resilient architecture behind an ALB.

## HONOURS AND AWARDS

**Oracle Certified Data Science Professional.** | *MLOps, Pipelining, LangChain* September. 2025

- Learned about data preparation, model evaluation, model training and automation pipelines using **OCI**.
- Expertise in **MLOps**, data science pipelines, model deployment, and OCI integration for scalable AI solutions.

**AWS Certified Cloud Practitioner.** | *EC2, S3, VPC, WAF, Cloudfront* May. 2025

- Cleared the AWS Certified Cloud Practitioner exam with a score of approximately 900.
- Gained strong foundational knowledge of AWS Cloud concepts, services, and best practices.

**Smart India Hackathon 2024 Finalist** | *NIT Surathkal* December. 2024

- One of the 5 teams selected (from 500 candidate teams) to compete at SIH24's grand finale.
- Developed an AntiDoping tracker under guidance of officials from **Ministry of youth and sports**.

## RESEARCH AND PUBLICATIONS

**AI-Augmented Headless Browser-Based Web Scraping.** under review  
*Machine Intelligence for Research and Innovations (MAITRI) 2025*

- No Code Web scraping tool utilizing Headless browsers augmented with AI for automating extraction of relevant information, allowing for scraping of asynchronously loaded pages along with structuring of unstructured content.

## PATENT

**Air Quality Monitor Design Patent.** Feb. 2025  
*The Patent Office, Government Of India 2025*

- Arduino-based real-time Air Quality Index Monitor with digital display and cloud support.