# Akshat Arya

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## About

I'm a Computer Science undergraduate with a strong interest in intelligent systems, software development, and secure embedded technologies. I enjoy solving real-world problems through a hands-on, systems-oriented approach.

## Experience

**Samsung Research**      May 2025 – Present
*Research Intern*      *Bangalore, India*
- Building a deepfake audio detection pipeline using signal processing and neural models as part of an advanced research project.

**Bhatiyani Astute Intelligence**      April 2025 – Present
*Research Intern*      *Remote*
- Developing an offline IoT-based digital wallet with encryption and haptics interface, aimed at improving accessibility for visually impaired users.

## Projects

**EffiScan-AI**
*AI-powered Employee Efficiency Analyzer (YOLOv8 + OpenCV)*      *GitHub*
- Designed a system that leverages CCTV feeds and object detection (YOLOv8) to analyze employee activity and flag non-compliance events in real time.

**Adept_AI**
*AI-based Study Scheduler using Gemini + Classroom + YouTube APIs*      *GitHub*
- Automated study planning by parsing notes, extracting key topics, and generating structured learning paths enriched with subtopics, definitions, and curated YouTube videos.

**Job Recommendation System**
*TF-IDF + Cosine Similarity + Streamlit*      *GitHub*
- Implemented resume-based job matching using NLP, and provided personalized upskilling suggestions through an interactive Streamlit interface.

**Portfolio Website**
*Personal Portfolio*      *GitHub*
- Built a personal website to showcase technical projects, experience, and achievements using HTML, CSS, and JavaScript.

## Education

**R.V College of Engineering**      Sep 2023 – Aug 2027
*Bachelor of Engineering, Computer Science*      *Bangalore, India*
- Current CGPA: 8.87

## Skills

- **Languages:** Python, JavaScript, C, SQL, HTML, CSS, Bash
- **Frameworks & Tools:** React.js, Node.js, Express.js, Flask, Streamlit, Langchain, Git, GitHub, Arduino, Postman
- **Libraries & AI:** OpenCV, scikit-learn, TensorFlow, Keras, PyTorch, NumPy, Pandas, Matplotlib
- **Deep Learning:** Artificial Neural Networks (ANN), Convolutional Neural Networks (CNN), Recurrent Neural Networks (RNN)
- **Databases & Cloud:** MongoDB, PostgreSQL, MySQL, Google Cloud (Basics), Firebase
- **Other Skills:** RESTful APIs, Prompt Engineering, Data Preprocessing, Deployment (Render / Vercel), Agile Workflow

## Achievements & Interests

- Placed 4th in **Argonyx '24**, a 24-hour hackathon for developing a job recommendation system.
- Earned certifications in Cloud (Vertex AI, Dataplex, Looker, API Gateway) and core tech skills (Python, DSA, JavaScript, HTML/CSS). *(View)*
- Hosted tech and cultural events; actively participated in hackathons and innovation challenges.
- Avid chess player — chess.com/akshat0_fr