

# Adarsh Singh

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## Contact Information

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## Summary / Objective

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Highly motivated and academically strong B.Tech student with a strong foundation in programming and a passion for developing innovative solutions in software development, data analysis, and artificial intelligence. Demonstrated ability to leverage AI technologies through projects like an automated YouTube content pipeline. Eager to contribute to a dynamic team and further develop technical expertise in a professional environment.

# Education

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**Bachelor of Technology (B.Tech)** | Computer Science / Information Technology (Expected 2027)

Allenhouse Institute of Technology

**Class 12 (Intermediate)** | Science Stream (2022)

Rk Education Center | Topper

**Class 10 (High School)** | (2020)

Rk Education Center | Topper

# Skills

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**Programming Languages:** Python, C, Java

**AI/ML Concepts:** Generative AI (Gemini API), Automation Pipelines, Basic Machine Learning Principles (Implied through projects)

**Data Analysis (Suggested):** Pandas, NumPy, Matplotlib, Seaborn (Recommended to learn and add)

**\*\*Web Technologies:\*\*** Chrome Extension Development (JavaScript, HTML, CSS)

**\*\*Tools & Platforms:\*\*** Git, GitHub, VS Code

**\*\*Operating Systems:\*\*** Windows, Linux (basic)

## Projects

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### **\*\*YouTube Automated Pipeline\*\***

**\*\*Description:\*\*** Developed an end-to-end automated system that leverages Google Gemini API for generating engaging video scripts based on specified themes. The pipeline dynamically creates short (e.g., 5-second) video clips aligned with the script's story description and, after user approval, seamlessly uploads the compiled content to YouTube.

**\*\*Key Features:\*\*** AI-powered script generation, automated video clip creation, integrated YouTube uploading, approval workflow.

**\*\*Technologies Used (Suggested):\*\*** Python, Google Gemini API, YouTube Data API, MoviePy (or other video editing libraries), Pandas (for data handling), Request Library, Git.

**\*\*Impact/Outcome (Suggested):\*\*** Significantly reduces manual content creation time by X%, enables rapid prototyping of video content, demonstrates practical application of generative AI for content automation.

### **\*\*Screen Analyser Chrome Extension\*\***

**\*\*Description:\*\*** Engineered a Chrome extension capable of capturing screen content and performing subsequent analysis. This tool aims to provide quick insights or information extraction directly from displayed web content. (Elaborate on the specific type of analysis, e.g., text extraction, image content analysis, data scraping, etc.)

**\*\*Key Features:\*\*** Screen capture, (Specific analysis feature, e.g., text recognition, keyword highlighting, data extraction).

**\*\*Technologies Used (Suggested):\*\*** JavaScript, HTML, CSS, Chrome Extension API. (If backend analysis is involved: Python with Flask/Django, OpenCV for image processing, Tesseract for OCR).

**\*\*Impact/Outcome (Suggested):\*\*** Improves efficiency in information gathering by Y%, offers on-the-fly content analysis for users.

## **Achievements**

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**\*\*Academic Excellence:\*\*** Achieved the distinction of 'Topper' in both Class 10 (2020) and Class 12 (2022) examinations at Rk Education Center, demonstrating consistent high performance and dedication to studies.