

# SACHIN PRAKASH KURUP

## Engineering Undergraduate

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### PROFESSIONAL SUMMARY

Creative and detail-oriented undergraduate with hands-on experience in video editing and post-production workflows. Highly proficient in industry-standard tools including DaVinci Resolve, Adobe Premiere Pro, Adobe Photoshop, and Adobe After Effects. Skilled in integrating technology with creative workflows to produce high-quality video solutions and visual content.

### EDUCATION

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- Bachelor of Technology – Computer Science Engineering (Artificial Intelligence & Machine Learning)  
Dayananda Sagar University, Bengaluru | 2022 – 2026 (Ongoing)
- Higher Secondary (Class XII) – HMR International  
2020 – 2022
- Secondary – Vibgyor High  
2015 – 2020
- Primary – Baldwins' Boys High School  
2010 – 2015

### TECHNICAL SKILLS

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- **Video Editing & Motion Graphics:**  
DaVinci Resolve, Final Cut Pro, Apple Motion, Color Correction, Subtitling, Transitions, Visual Storytelling
- **Programming & Analysis:**  
Python, R, MATLAB, Java, C, OOP, Data Structures & Algorithms
- **Machine Learning & Data Analysis:**  
TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn, OpenCV
- **Tools & Techniques:**  
Data Visualization, Image Processing, Data Cleanup, Statistical Analysis, Charts & Graphs, ML (Intermediate), Visual Basics
- **Soft Skills:**  
Communication, Teamwork, Time Management, Leadership, Adaptability, Quick Learning

### EXPERIENCE

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- 88GB  
November 2025 - Present  
Video editing and Graphics Designing for marketing advertisements.
- Hindustan Aeronautics Limited  
March 2025 - May 2025  
Created a project that creates subtitles from audio / video using whisper framework .

### PROJECTS

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- **Home Server**  
Created a cloud based spotify, netflix and audible like home server that is accessible publicly using VPN service.  
Skills: Docker , Linux , Subsonic API.
- **NeoVim Configuration**

Created a configuration file using the lua language that can be cloned into any new neovim text editor setup directly from my github page.

Skills: Lua, git, linux commands

- **Plant Leaf Disease Detection**

Identify disease in plant leaves(mainly tomatoes) to identify the type of disease suffered by the plant.

Skills: Machine Learning, Image Processing, Supervised Learning

- **Multiple Sclerosis Detection from MRI**

Designed a KNN-SVM-U-Net pipeline for early MS detection and tracking using MRI scans.

Skills: Machine Learning, KNN, SVM, U-Net, Medical Imaging, Data Processing

- **Financial Chatbot**

Created a multilingual, voice-enabled chatbot for customer queries, utilizing FAQ-based retrieval and NLP techniques.

Skills: Chatbot Development, NLP, Voice Recognition, Multilingual Processing

- **Facial Reconstruction from Skull**

Applied computer vision techniques to reconstruct human faces from skull images.

Skills: Computer Vision, Image Processing

- **Churn Prediction Dashboard**

Built dashboards in Power BI and RapidMiner to analyze and visualize customer churn data.

Skills: Power BI, RapidMiner, Data Visualization

- **Color Correction Models for Color Blindness**

Evaluated models for improving visual perception in color blindness using MATLAB.

Skills: MATLAB, Image Processing, Data Visualization

- **Multi-Modal Drone Detection**

Developed a VGG19 model for detecting drones using images and sound samples.

Skills: Python, Image processing, Transfer Learning

- **Java HTTP server**

Created a basic java http server pathway.

Skills: Java , Spring framework.

- **Java Rock-Paper-Scissors Game**

Created a game of rock paper scissors in which the computer engages with a human player, with score tracking.

Skills: Java , JFrame, AWT Event Listener.

## ACHIEVEMENTS

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1. ISRO Rover Making Challenge(IROCU - 24) – Qualified among the top 150 teams nationwide
  2. Ideathon, Dayananda Sagar University - 3rd Place
  3. Ideathon, Dept. of CSE, DSU - 4th Place
  4. Smart Agro Hackathon – Participant, hosted by REVA University & Cognizant
  5. Smart India Hackathon 2024 – Participant
  6. Think & Lead: Girl Geeks 2024 – Qualified for Prototype Phase, IEEE Bangalore Chapter
  7. Vultr Cloud Innovate Hackathon – Participant
  8. DSATM GK Quiz : 2nd Place
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## CERTIFICATIONS

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1. Linux Fundamentals
2. Developing Applications on Linux using bash scripting

## OTHERS

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- Languages: English, Hindi, Malayalam, Kannada
- Linux Skills: Proficient in linux operation and commands .
- Data Structures: Solved 160+ problems in Data Structures and Algorithms on leetcode platform mainly in Java.
- PAPER PUBLICATION