

SACHIN PRAKASH KURUP

Engineering Undergraduate

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PROFESSIONAL SUMMARY

Computer Science Engineering student with expert-level proficiency in professional video production tools, including DaVinci Resolve, Premiere Pro and After Effects. Experienced in managing the end-to-end post-production process, from advanced color correction and motion graphics to the implementation of seamless transitions and precise subtitling. A detail-oriented editor currently contributing to marketing advertisement campaigns, skilled at translating complex concepts into high-impact, engaging digital content.

EDUCATION

- 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

- **Video Editing & Motion Graphics:**
DaVinci Resolve, Premiere Pro, After Effects, Photoshop, 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

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

PROJECTS

- **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

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

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

OTHERS

- 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.