

# Kashyap Sasi

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📍 Kannur, Kerala

🌐 kashyap-sasi

## Profile

Passionate B. Tech Electronics and Computer student with proficiency in Python programming, Machine Learning. Enthusiastic about Computer Vision, Data Visualization, and Data Analysis. Completed certification courses and projects. Showcased effective communication, adaptability, and a collaborative mindset in team environments.

## Education

2019/09 – present Kollam, India	<b>Bachelor of Technology in Electronics and Computer, Amrita School of Engineering</b> <b>6.75 CGPA</b>
2020/06 – 2021/08 Kottayam, India	<b>Aravinda Vidya Mandiram, 12th Grade</b> <b>88%</b>
2018/04 – 2019/05 Sharjah, UAE	<b>Sharjah Indian School, 10th Grade</b> <b>84.4%</b>

## Skills

### Programming Languages

Python, R Programming, MATLAB

### Development Tools

LTSpice, Tinkercad, RStudio, Davinci Resolve, Adobe Creative Suite

### Soft Skills

Time Management, Adaptability and Flexibility, Patience, Attentive Listening, Detail Oriented

## Projects

2024	<b>Crime Analysis Using R Studio</b> <i>Exploratory Data Analysis (EDA) for Crime Trends</i> Conducted detailed analysis of homicide data in India using exploratory data analysis (EDA) tools. Identified temporal trends, gender disparities, and geographical hotspots, revealing insights crucial for targeted crime prevention strategies and law enforcement policies.
2024	<b>Stock Trend Prediction</b> <i>Machine Learning with python</i> Developed and executed an innovative machine learning-based stock trend prediction model, utilizing historical data and technical indicators to accurately forecast market trends. The model provided actionable insights for investment strategies and risk management.

- 2024

**VoIP Configuration**  
*Implemented and configured VoIP services using Cisco Packet Tracer*  
This project uses Cisco Packet Tracer to simulate a network with routers, switches, and DHCP servers across four locations, enabling VoIP communication. Key configurations include IP phones, Call Manager Express (CME), and EIGRP routing. The setup allows seamless calling between phones across the network.
- 2024

**Air Canvas Using OpenCV and Python**  
*Gesture-Based Drawing System with OpenCV*  
Developed an interactive system using computer vision techniques with OpenCV and Python, allowing users to draw in the air using gestures captured from a webcam.
- 2023

**Simulating Environmental Sound Effects with FIR and IIR Filters**  
*MATLAB*  
replicated resonant environments through experimentation with FIR and IIR filters on simulated mountain echoes. This provides valuable insights for audio engineering and music production professionals.
- 2022

**Automatic Fence Lighting with alarm**  
*Operational Amplifiers*  
Developed an innovative solution to enhance security by integrating automatic fence lighting with alarm functionality using operational amplifiers, ensuring timely detection and deterrence of intrusions.

## Community Outreach

- 2023

Trivandrum, India

**Student Social Responsibility**  
*Cyber Scam Awareness Program*  
Led a successful campaign to promote awareness of spam calls and messages, firmly educating individuals on the risks and empowering them with effective strategies to avoid cyber scams.

## Languages

### English

To Read, Write, Speak and Understand

### Malayalam

To Read, Write, Speak and Understand

### Hindi

To Read, Write, Speak and Understand

## Hobbies

Football, Videography, Reading, Drawing, Programming