

# Anupa Sajikumar

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## Profile

AI-driven innovator passionate about Machine Learning, Deep Learning, and Web Development. Skilled in full-stack development, data analysis, and building intelligent systems to solve real-world problems.

## Education

- M.Tech in Artificial Intelligence**, Amrita Vishwa Vidyapeetham – Coimbatore  
**B.Tech in Computer Science (AI)**, Amrita Vishwa Vidyapeetham – CGPA: 8.73 – Amritapuri  
**12th**, St. Antony's Public School – CBSE: 96.7% – Kanjirapally  
**10th**, Al-Janoub Intl. School – CBSE: 95.0% – K.S.A

## Experience

- Data Analyst Intern**, Vimaan Robotics, Bangalore
- Developed Root Cause Analysis system for resolving errors in the PS360 AI pallet scanning model.
- Research Intern**, Hutlabs, Kerala
- Designed experiments and applied AI algorithms for scientific research.

## Projects

- Solar Flare Intensity Detection and Weather Analysis** - Built a PCA-optimized SVM model to classify solar flare intensity and analyze space-weather patterns with improved predictive reliability. (Oct 2025)
- Virtual Twin** - 3D AI avatar for virtual meetings (Aug 2024 – May 2025)
- ProfitMax** - RL-based crypto trading bot (May 2024 – Jun 2024)
- Look-alike Face Cam** - Doppelganger matching using VGG-Face (Nov 2023 – Jan 2024)
- ROSARA** - Interactive robotic dog using ROS (Mar 2023 – Apr 2023)
- Kalman Filter in Aerospace** - Aircraft height estimation (Dec 2023 – Jan 2024)

## Skills

**Languages:** Python, Java, HTML, CSS, JavaScript

**Frameworks:** React.js, Node.js, TensorFlow, Spark

**Tools:** MongoDB, PostgreSQL, Hadoop, Git

## Publications

- Virtual Twin AI Assistant**, Prince Sultan University, Data Science Conference, Riyadh, KSA, 2025
- Sound Navigation TDNN-LSTM**, International Conference on Power Engineering Intelligent Systems, 2025

## Certifications

**TensorFlow, MongoDB, Project Management, Machine Learning, Drone Technology** – University of Pennsylvania, Coursera

## Social Outreach

- Anti-Drug Campaign**, SSR Project – Ramapuram, Kerala
- Led awareness programs and community outreach promoting anti-drug education.
- Echoes of Wisdom**, Compassion-Driven Project – Kalaypuram, Kerala and Ettimadai, Tamil Nadu
- Visited Old-age homes to connect and interact with elders attaining wisdom and knowledge.