

# K.SRUJAN | ROBOTICS AND AI ENGINEER

## PROFESSIONAL SUMMARY

To seek and maintain full-time position that offers professional challenges utilizing technical skills, interpersonal skills, excellent time management and problem-solving skills.

## SKILLS

- ✓ **AI/ML/DL & Prompt Engineering**
  - Data Analysis and visualization
  - Feature Engineering
  - Optimization Techniques
  - Model deployment and maintenance
  - Algorithm development
  - Pattern Recognition
  - Object recognition and tracking
  - 3D Detection and Reconstruction
  - Image, Video and Audio processing
  - Prompt Generation
- ✓ **Electronics and Robotics**
  - Robotics Design and Development
  - Control System Engineering
  - System Integration and Automation
  - Robotic system testing and validation
  - Manufacturing process improvement
  - Signal Processing and analysis
  - PCB Designing and Prototyping
- ✓ **Other**
  - Research and development
  - Project Management
  - Creative problem-solving
  - Team collaboration and communication
  - Git version Control
  - Coding Languages: Python, Matlab, C, C++, VHDL, HTML & CSS.

## PROFESSIONAL EXPERIENCE

### DRDO-DRDL(Defence Research and Development Laboratory), Hyderabad, Telangana(500058)

Deep Learning Project Intern/Trainee | 06 January, 2023 - 06 June, 2023

- A **6-month** stint on Indigenous Defence **Project**.
- Focused on the **AI Band Vision Project** led by **Dr. Akula Naresh** (Scientist-F) (Industrial Mentor).
- Implemented **YOLOv7 on NVIDIA Jetson AGX Xavier**.
- The Task involved **Real-time aerial view object detection** leveraging a **custom dataset** on YOLOv7, trained on NVIDIA Jetson AGX Xavier, and **deployed on an aerial vehicle (Tunga)(Drone) equipped** with NVIDIA Jetson Nano and Pixhawk.
- **Added Parameters** to the detection for **specific tasks** under the guidance of the Industry Mentor.
- Collaborated with **cross-functional teams** to integrate **enhanced object detection**.

## PORTFOLIO WEBSITE LINK

- <https://srujan29112001.github.io/Portfolio0/>

## CERTIFICATIONS

- Modern **Computer Vision** GPT, OpenCV4 in 2024 - Udemy.
- **TensorFlow** Developer in 2023:Zero to Mastery - Udemy.
- **PyTorch** for Deep Learning Bootcamp - Udemy.
- Disaster Risk **Monitoring Using Satellite Imagery** - NVIDIA.
- Complete **AI, Machine Learning, and Data Science** Bootcamp - Udemy.
- Intro to **AI Agents**: Build an Army of Digital Workers with AI - Udemy.
- **Flight Dynamics with Tensors** - Udemy.
- The Complete **Prompt Engineering** for AI Bootcamp (2024) - Udemy.
- AI Application Boost with **NVIDIA RAPIDS** Acceleration - Udemy.
- **Python** for Data Science and Machine Learning Boot Camp - Udemy.
- Introduction to **Cloud Computing** with AWS, Azure, and GCP - Udemy.
- Applied **Control Systems 1**:autonomous cars: Math+PID+MPC - Udemy.
- Mastering **Microcontrollers**: Timers, PWM, CAN, Low Power(MCU2) - Udemy.
- Self-Driving and **ROS 2**-Learn by Doing! Odometry & Control - Udemy.
- Complete **Neural Signal Processing** and Analysis: Zero to hero - Udemy.
- VLSI SoC Design using Verilog HDL - Maven Silicon.
- **Jetson Nano** Boot Camp - Udemy.
- **CUDA Programming** masterclass with **C++** - Udemy.
- Workshop/Develop, Customize, and Publish in **Omniverse** With Extensions - **NVIDIA**.
- Model, Simulate, and Control a **Drone in MATLAB & SIMULINK** - Udemy.
- Design and Simulate the **Aerodynamics of Propellers in MATLAB** -Udemy.
- The Ultimate **Dark Web**, Anonymity, Privacy & Security Course - Udemy.
- Diploma Course in Modern **Applied Psychology (DiMap.)** - Udemy.

- Master the Art of Hypnosis: **Hypnotherapy** Practitioner Course - Udemy.

## EDUCATION

### 2019 - 2023 | Thapar Institute of Engineering and Technology

Bachelor of Engineering in Electronics and Communication Engineering

CGPA: 6.60

### 2017 - 2019 | Krishna Murty IIT Academy(Shivam Junior College)

11th&12th Standard (MPC)

CGPA: 8.96, **JEE Mains Score: 95.3 %ile**

### April - 2017 | All Saints High School

10th Standard

CGPA: 8.3

## RELEVANT PROJECTS

- All the relevant projects for the Certifications, Skills, and Experience are in the following portfolio link(My Projects): <https://srujan29112001.github.io/Portfolio0/>

## LANGUAGES

- Native Telugu.
- Hindi.
- English.

## HOBBIES

- Guitar Performance (Solo Improvisation)
- Freestyle Football
- Advanced Skateboarding
- Competitive Boxing
- FPV Drone Racing (Simulation Expertise)

## CONTACT INFORMATION



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<https://github.com/Srujan29112001?tab=overview&from=2023-11-01&to=2023-11-30>



<https://www.linkedin.com/in/k-srujan2>