

# ARYAN SONI

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## SKILLS

Python, C++, React.js, Node.js, Tailwind CSS, MySQL, MongoDB, AWS, Git/GitHub, PyTorch, OpenCV, TensorFlow

## WORK EXPERIENCE

### Software Developer Intern

Nov 2023 – Jan 2024

*Rex Industries, India*

*Remote*

- **Integrated and assessed** robotics software modules utilizing **Robot Operating System (ROS)**, improving system communication latency by 15% and reducing software conflicts by 22%.
- **Optimized** operational workflows using SQL and Python, reducing data retrieval time by 30% and enhancing network performance by 25%.
- **Designed** AI/ML algorithms that increased automation efficiency by 40%, leading to faster decision-making and improved system accuracy.
- **Led** development of AI robotics software, achieving a 40% improvement in task execution speed and enhancing system scalability to support a 3x increase in concurrent processes.

## PROJECTS

### TrustWave AI | Python, TensorFlow, PyTorch, OpenCV, scikit-learn

- Spearheaded the integration of ResNeXt and LSTM networks within the deepfake detection system, reducing false positives by 15% and accelerating processing time by 200 milliseconds per video.
- Planned and deployed scalable AI models using Python, TensorFlow, Keras, and scikit-learn, optimizing performance with hyperparameter tuning and evaluation metrics (ROC-AUC, F1).
- Developed and implemented advanced machine learning models to detect and mitigate synthetic media manipulation, increasing detection accuracy by 35% and strengthening system robustness.
- **Role: Machine Learning Engineer**

### Hast-Akshar | Python, TensorFlow, OpenCV, FastAPI, Sci-kit-learn

- Pioneered Hast-Akshar, a real-time Devanagari sign language interpretation system utilizing custom CNN models and computer vision techniques, achieving 95% accuracy in gesture classification using a unique dataset.
- Engineered a gesture recognition pipeline using PyTorch and OpenCV, incorporating custom data pre-processing, augmentation techniques, and end-to-end model training, achieving high accuracy on user-generated datasets.
- **Role: Machine Learning & Computer Vision Engineer**

## EXTRA-CURRICULAR AND ACHIEVEMENTS

**Achievements:** Ranked first 3% out of 150,000+ participants worldwide in a Kaggle Machine Learning Challenge, outperforming professionals worldwide, Secured finalist position among top 50 teams from 1500+ registered teams and 7000+ participants in a machine learning competition focused on solar energy datasets.

**Open-source contribution:** Hacktoberfest'24(5+ PR Merged), Social Winter of Code'25, Contributed in GSSoC'24.

**Responsibilities:** Led the VIT Bhopal Eureka Club as President, spearheaded the IoT Club as Technical Team Lead, and increased the outreach of the Null Chapter as Social Media Team Lead.

## CERTIFICATIONS

**OCI Generative AI Professional** - Oracle

*July 2024*

**Oracle Cloud Infrastructure Foundation Associate** - Oracle

*April 2024*

## EDUCATION

**Vellore Institute of Technology, Bhopal**

September 2022 – Ongoing

*B.Tech in Computer Science and Engineering*

*CGPA: 8/10*

**Central Board of Secondary Education**

*May 2022*

*Senior Secondary Education*

*Percentage: 82%*

**Central Board of Secondary Education**

*May 2020*

*Secondary Education*

*Percentage: 80%*