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: 7.96/10*

Central Board of Secondary Education   **May 2022**
Senior Secondary Education   *Percentage: 82%*

Central Board of Secondary Education   **May 2020**
Secondary Education   *Percentage: 80%*