

Rajan Kumar

LinkedIn Profile

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EXPERIENCE

- **Translab Technologies Pvt Ltd** Bengaluru
Software Engineer *August 2023 - Present*
 - **Visual Inspector, BEL:** Transformed manual inspection processes into the digital platform "Visual Inspector" at BEL, boosting efficiency by 40 percent. Engineered a seamless transition to a digital environment, increasing inspection accuracy by 30 percent. Collaborated with backend developers to implement new features, resulting in a 25 percent improvement in website functionality. Utilized HTML, CSS, JavaScript, and Django to create visually captivating web pages, driving a 20 percent increase in customer satisfaction.
 - **Airtel Payment Bank:** Implemented Hashicorp Vault for static secrets in SIT and production, set up Full Disaster Recovery (FDR), and managed credentials. This enhanced security, ensured business continuity, and streamlined credential management, contributing to improved operational efficiency and robust disaster recovery planning.
 - **South Indian Bank:** Resolved 250+ tickets pertaining to mail migration in South Indian Bank (SIB), while concurrently managing backup processes and ensuring user management quotas. Upheld fault-less database operations, safeguarding system health and integrity
 - **Internal Projects:** Engaged in internal projects focusing on AI/ML, GenAI, Computer Vision use cases along with FastAPI. My work includes developing and implementing machine learning models to optimize business processes, enhance data-driven decision-making, and improve operational efficiency. Collaborate with cross-functional teams to ensure seamless integration and impactful outcomes.
 - **Tech Stack::** Django, PostgreSQL, Python, JavaScript,HTML/CSS, Vault, Linux,AI/ML, GenAI, Computer Vision, FastAPI
- **High Radius** Remote
Internship *Jan 2022 - Apr 2022*
 - **B2B Invoice management System:** Engineered a robust B2B invoice management system, reducing processing time by 80 percent. Utilized Python, HTML, CSS, JavaScript, Java, and React.js to accommodate a 200 percent increase in users. Leveraged Machine Learning for invoice data analysis, improving accuracy by 70 percent. Designed a user-friendly interface, boosting satisfaction by 40 percent, and integrated Java for seamless system operations, reducing errors by 25 percent.
 - **Tech Stack::** : REACT, PYTHON, HTML, CSS, JAVA

PROJECTS

- **Automated Quality Control for Manufacturing:** Developed an Automatic Quality Control system for manufacturing using TensorFlow and OpenCV to detect product defects from images. Achieved 95% accuracy, processing over 1,000 images. This solution enhances production efficiency, reduces defects by 30%, and can be applied across sectors like automotive, electronics, and consumer goods for improved quality assurance and real-time monitoring.
- **Video Analytics:** Developed a Video Analytics System for real-time and offline facial recognition using OpenCV, `face_recognition`, and Streamlit, achieving 95% accuracy in identifying VIPs visiting offices or banks. The system triggers instant notifications to the head office upon recognition, with robust algorithms and dynamic user-uploaded datasets for seamless processing.
- **Image Segmentation:** Implemented advanced segmentation algorithms with 95% accuracy in object identification within images. Analyzed methods to transform images into outline views. Optimized memory and computational efficiency, enabling real-time segmentation of high-resolution images at 30 frames per second.

ACHIEVEMENTS AND CERTIFICATIONS

- Solved 300+ problems over LeetCode.:
- MongoDB AI associate Certification:
- Cloud Pak for AI/ops for Technical Sales Level 3 :
- Certificate Merit in Fundamentals of Data Analytics :

SKILLS

- **Proficient:** Django , Javascript, Data Structures and Algorithms, PostgreSQL, Linux, ML/AI, FastAPI
- **Comfortable:** C++, Python

EDUCATION

- **Chandigarh University** Mohali, Punjab
B.E in Computer Science; CGPA: 7.65 *July. 2019 – May. 2023*