Paras Saini

bkparassaini@gmail.com • https://www.linkedin.com/in/paras-saini-860589135

EDUCATION

Bharati Vidyapeeth College of Engineering, New Delhi, India   **2016-2020**

Bachelor of Technology, CGPA 8.1/10

PROFESSIONAL EXPERIENCE

Bosch Global Software Technologies, Bangalore, India   **05/2022 - Present**
Senior Engineer

- Designed, developed async **FastAPI endpoints** capable of handling **1lac+** images per day with same day processing guarantees, incorporating **metadata validation** and a **robust retry mechanism** for handling false or failed cases.
- Developed the core analytical logic to collect messages from **azure queue**, hit the FastAPI endpoints to process further and dump into another storage.
- To enhance the observability of the process, designed and developed **SQL database, schema design,** run **pipeline** to store key parameters from FastAPI app, further exposed these KPI using another FastAPI app and fetched it from the **dashboard**.
- Demonstrated strong skills in **debugging** critical issues and resolving **performance bottlenecks**, ensuring high system reliability and efficiency.
- Generate vehicle trajectory based on surrounding environment using **Deep Learning**. Achieved Runner-up position in the **EDE Hackathon 2024**, showcasing innovation and technical excellence.

Mcdermott International, Gurgaon, India   **11/2020 – 05/2022**
Associate Engineer

- Developed **Sliding Window Object Detection** and implemented **YOLO** for engineering drawings (P&ID).
- Automated preparation of Instrument Index via Excel Macros, reducing workload by 80%.
- Worked on **unsupervised/supervised learning** methods for machine vision in industrial contexts.

PROJECTS & EXTRACURRICULAR

Development of Low-Cost ECG Device   **08/2018-08/2020**
- Low-Cost ECG Device with ML/DL for Disease Detection.
- Trained and deployed **FFNN/CNN** models achieving 99% training and 95% testing accuracy.
- Published at **MISS** 2020 Springer Conference.

SKILLS

Programming languages: Python, GO

Technical Electives Data Structure and Algorithms, SOLID Principles, Design Patterns, SQL/NOSQL, Operating system, Asynchronous Programming, FastAPI/REST, System Design, CI/CD, Cloud Computing (Azure), Docker, Terraform, Kubernetes, Machine Learning, Deep Learning.

Developer Tools/ Libraries: REST, Git, Vs Code, Microsoft Azure