



POOJA GARG

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PROFESSIONAL EXPERIENCE

dSPACE GmbH
Working Student

Paderborn, Germany
June 2024 - Present

- **IVS Scenario Detection Configurator**

- Single handedly built the **React-based frontend architecture** with React js, Plotly.js and Material UI for a scenario configuration tool.
- Added **image-based coordinate selection** and **dynamic heuristic integration** via REST API + FastAPI.
- **Containerized and deployed** using Docker + Nginx, ensuring **scalable, production-ready delivery**.

- **Multimodal Dataset Synchronization (Automotive)**

- Developed a **Python pipeline** to align and visualize **LiDAR, camera, GPS/IMU, and annotation data**.
- Implemented **11-digit timestamp fusion** and automated annotation mapping for **2D/3D objects**.
- Integrated datasets into **FiftyOne**, enabling **interactive quality checks** for ML pipelines.

- **Documentation Versioning (Internal Tool)**

- Set up **MkDocs + mike** for **multi-version documentation** deployed via gh-pages.

- **Weather Detection Module (Wetterdienst API)**

- Built a **Python weather classification module** using **REST API integration and ranking logic**.

PayU
Software Engineer

Pune, India
March 2022 – Sep 2023

- **Frontend & React Development**

- Built **modular, scalable UIs** using React's component-based architecture.
- Developed **CRUD + search features** with React Router, custom hooks, Redux, Axios, and Jest, **reducing workload by 65%** and ensuring on-time delivery.
- Designed **interactive payment portal UIs** for Daimler AG and multiple university fee systems, solving complex UX and functional challenges.

- **API Development & Integration**

- Created and integrated **REST APIs**, validating functionality with **Postman**.
- Implemented **secure payment API integrations** to support reliable transactions.

- **Python Automation & Data Handling**

- Built Python scripts to fetch PayU database records and **securely transfer** them to clients via **email/SFTP**.

PayU
Software Engineer Intern

Pune, India
Sep 2021 – March 2022

- **Technical & Development Skills**

- Built a solid understanding of **payment processing workflows**, security, and compliance.
- Gained practical experience across the **full SDLC** — from requirements to deployment and maintenance.
- Learned and applied **clean coding practices** focused on readability and maintainability.
- Worked with **Git-based version control** for collaborative development.
- Integrated **external APIs** including payment and authentication services.

- **Professional & Communication Skills**

- Collaborated effectively with **cross-functional teams** and presented project outcomes.
- Adapted to **technical, fast-paced environments**, solving complex challenges with innovative

EDUCATION

University of Paderborn
Master's in computer science

Paderborn, Germany
2023 - Present

Savitribai Phule Pune University
Bachelor's in Information Technology

Pune, India
2018 - 2022

SKILLS

- **Front-end:** HTML, CSS ([Certificate](#)), JavaScript ([Certificate](#)), Reactjs ([Certificate](#))
- **Back-end:** Python ([Certificate1](#), [Certificate2](#)), PHP, Cpp
- **Database:** My SQL
- **Task Management:** Agile, Jira, Confluence
- **Developer Tools:** Linux, Git, GitLab, Bitbucket
- **Languages:** English (C2), German (A1)

ACHIEVEMENTS

- **Research Paper**
"Detection of Phishing Website Using Machine Learning", [Available at IJAR SCT](#)

VOLUNTEERING EXPERIENCE

- Orphanage Teaching
- Anchoring at the college level
- Donations