

### SUMMARY

Detail-oriented engineer with 3 years of experience in the automotive industry, specializing in datariven and modebased software development. Proficient in Pythor C++, MATLAB/Simulink, and SQL, with a strong focus on clean, maintainable code. Expertise in machine learning, MLOps, computer vision, and control engineering.

## **SKILLS**

- Programming Languages: Python 3, C++ MATLAB/Simulink, SQL
- Machine Learningand Al: PyTorch, TensorFlow, Keras, MLOps (MLflo@cikit learn, NLP (Transformers, Hugging Face, Seq2Seq, BERT), LLM, XGBoost, LightGB Hyperparamete Optimization (Bayesian, Optuna)
- Big Data and AnalysisMySQL, PostgreSQL DBMS, Distributed Computing (DASK), Power BI
- Computer Vision Open CV, Mediapipe
- Data Visualization Matplotlib, Seaborn, Scipy, Plotly, Dash
- Data Engineering CI/CD Pipeline, ETL, Data Warehousing, Datntegration
- Testingand Debugging Pytest, Unit Testing, Vscode
- CloudServices Microsoft Azure, Azure
- Containerization Docker, Kubernetes
- Automotive Technology CANoe, CANalyzer, LIN, Ethernet, AUTOSAR,
- Web Development Flask, RESTful API, Streamlit JavaScript, HTML, CSS
- VersionControl & Collaboration Git, GitHub, GitLab, BitbuckeConfluence
- Operating SystemWindows, Linux (Ubuntu), Bash Scripting
- Microsoft Office Excel, PowerPoint, Word
- CAEand CADSoftwares Catia V5, SolidWorks, AutoCAD, Ansys

## **CERTFICATIONS**

• Microsoft Certified: Azure Data Fundamenals (DP900) Docker Professional IBM Data Engineering

## LANGUAGES

- English (Fluent, level C1)
- German(Good level B1)
- Hindiand Marathi (Native)

### **ACADEMICPUBLICATIONS**

- "Integration of IT\$or Optimizing Sustainability and Efficiency in Commercial Vehicle Operation's (CVT Seminar 2023)
- "A Comparative Analysis of Visual SLAM and LiDARbased SLAM algorithms for Autonomous Vehicles(CVT Scientific Writing 2022)
- "Design and Optimization of Vaccum assisted Brake system for Light Commercia Vehicles - International Journal of Engineering Research and Technology (IJERT, Vol. 10, Issue 9, Sept. 2021)

# SARVESH TELANG

## Software Developer

t Website: https://sarveshbtelang.github.io/developerFolio/ A LinkedIn https://www.linkedin.com/in/sarveshtelang17916448/

A GitHub https://github.com/SarveshBTelang

WORK EXPERIENCE

Working Student Robert Bosch GmBH Stuttgart-FeuerbachGermany Sept 2023 Nov 2024

Date of Birth 01.11.1997

Location Kaiserslautern, Germany

Nationality: Indian

Email: telang@rptu.de

Tet +49 15259455504

- Led the label quality assurance team within the Automated Driving Alliance (Volkswagen&Causach) for Lev&l-systems
- Managed quality control and feature engineering for label data us & under the detection.
- Improved label accuracy by 40% through regular feedback to suppliers
- Created weekly quality reports and error analysis to support continquality improvement
- Developeda PythonTool for automated quality assessment antegrated itinto the CI/CDPipeline
- Designed a webapplication with dynamidashboard (singAzureand SharePointAP) to perform quality checks in reatime

Data Sciencentern

SchwieberdingerGermany Oct 2022 -Mar 2023

- Robert Bosch GmBH - Internship Topic Enhancement of ADAS Hardware Development Process through Machine Learning, Cloud Deploymen Vehicle Sensor Data Analysis
- Implemented an Abasedknowledge discovery framework for the automotive camera's Manufacturing Process
- Migrated the Python version of multibjective optimization algorithm, increasing the computation accuracy by 6%
- Performed debugging to scale the code using Dask over HPC clusters, ensuring functionality on Windows and
- Deployed the code over Azure cloud using Azure MLDandker to shareand collaborate with external clients
- Analyzed vehicle measurements from SHT and Type K sensors at 20+ ADAS sensor mounting locations
- Developed a python tool to investigate the impact of temperature bandhidity on driving behavior anstensor correlations
- Created a MATLAB tool to visualize driver profiles across different time, weather, and road conditions

ProcessExecutive Pune, Inda Apr 2021 -Aug 2021 **NVIDIA** 

- Performed image and video frame annotations for autonomous vehicles and their chassis control systems
- Worked on multiple annotation projects using NVIDIA HL2 platform, including Obstatetation, VRU detection, LiDAR Free space detection, an arking assistance

Technical Sales Engineer

Speciality Innotech Pvt. Ltd.

Pune. India Oct 2019 -Oct 2020

- Assisted in developing customized polyurethane products including Vehicle Engine mounts, MPU buffeldspanels
- Conferred with customers anethgineers to assess equipment needs and determine system requirements
- Utilized CAD an6AE softwares (AutoCAD, Ansys, SolidWorks) to perform feasibility checks through structural analysis
- Managed B2B sales operations in the South India region, including prospecting, pitchiologs and new business deals
- Secured 20+ new accounts aindreased qualified leads by 16% in a year through targeted marketing strategies
- Oversaw the Order to Cash process for POs, including procuremeintwandory management

## **EDUCATION**

Master of Science in Commercial Vehicle Technologytzfahrzeugtechnik RPTU Kaiserslautetrandau

KaiserslauternGermany Oct 2021 -Today

- CGPAdurrent): 1.9 (Good German Grading System
- Thesis DNNbasedVirtualTrajectory Generatiofor Autonomous VehiclesFocuson Local Reference Path Computation
  - Developed a virtual trajectory prediction framework using a splatio poral road inference approach
- Trained a Seq-Seq Transformer Model for robust lane keeping, solving a resultate time series forecasting problem
- Integrated the predicted trajectory into a visidorased MPC framework ansimulated it in the CARLA Simulator
- Grade 1.3 (Very good-German Grading System

Bachelor of Mechanical Engineerin

Pune University

Pune India Aug2015-Jul 2019

- CGPA: 81/10 (Very good-equivalent to1.5 in German Grading Systèm
- Thesis Design and Analysis of a CEstective Cylindrical Robotic Arm
- Grade 1.0 (Excellent German Grading System

#### **PRQIECTS**

Samplingbased Motion Planning with Obstaclevoidance for a 7DOF Robotic Arm Control Engineering Seminar

Aug 2023 -Sept 2023

- Implemented CBRRT (Constrained Birectional RRT) algorithfor efficient path planning of a robotic armsing MATLAB
- Computed the shortest anstmooth path while avoiding obstacles usiTrask Space Regions (TSRs)

Motion Prediction in Autonomous Vehicles using a Neural Network Approach E-Mobility Competition

Mar 2022 - Aug 2022

- Developedan FCNKerasmodel utilizing vehicle trajectories captured from drone imagesoad intersections in Germany
- Optimizedhyperparameters using Optuna aßdayesian methosto minimize displacement antobading errors
- Grade 1,0(Excellent German Grading System)

COVID 19 Dynamic Dashboard Development Enterprise Data Science

Jan2022 - Jun 2022

- Built a COVID9 dashboard in Python, following the industrandard CRISPM methodology
- Integrated realtime data extraction via RESTful APIs and created interactive visualization using DASHI and
- Grade: 1.0 (ExcellenGerman Grading System)

Arduino-based Automation of a 4DOF Cylindrical Robot Arm Tectonic 2k19Annual Technical Exhibition)

Feb2019 - Jul 2019

- Developed Prototype of 4-DOFcylindricalrobot arm using Arduino foautomating theloading & un-loading on CNGMachines
- Programmed Pickand-Place operations using Embedded C+-pfecise control of servomotorand the end effector