SAMARTH SURESH GHARE

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PERSONAL DETAILS

Current Location	Pune
Date of birth	December 27, 2003
Gender	Male

EDUCATION

Graduation	B.Tech/B.E. (Computers) Nutan College of Engineering and Research, Pune with Score 7.26%
Class XII	Maharashtra with 78.17% in 2021
Class X	Maharashtra with 80.40% in 2019

INTERNSHIPS AND PROJECTS

Internships

UniConverge Technologies (Duration July 2025 - August 2025)
Machine Learning Internship Projects Company: Uniconverge Technologies Pvt. Ltd. | Duration: 3 Months Prediction of Agriculture Crop Production in India Built regression models using agricultural data from 2001–2014 to forecast crop yields based on cost, season, and region. Crop and Weed Detection using YOLOv5 Developed an object detection model using image augmentation and YOLO annotation to identify and localize weeds in sesame crop fields. Turbofan Engine Remaining Useful Life Prediction Applied multivariate time series modeling to estimate the remaining operational cycles of aircraft engines using sensor data. Bearing Lifetime Prediction in Manufacturing Processed vibration signal data from real industrial bearings and used classification models to predict failure stages. Gearbox Fault Detection using Vibration Sensors Engineered features from time-series data collected under varying load conditions to classify healthy vs broken-tooth gearbox states. Smart City Traffic Pat
Skills used - Communication Skills,Python,Python Development,Web Development

Projects

Prediction of Agriculture Crop Production in India (Duration July 2025 - August 2025)
Built regression models using agricultural data from 2001–2014 to forecast crop yields based on cost, season, and region.

Crop and Weed Detection using YOLOv5 (Duration July 2025 - August 2025)
Developed an object detection model using image augmentation and YOLO annotation to identify and localize weeds in sesame crop fields.

Turbofan Engine Remaining Useful Life Prediction (Duration July 2025 - July 2025)
Applied multivariate time series modeling to estimate the remaining operational cycles of aircraft engines using sensor data.

Bearing Lifetime Prediction in Manufacturing (Duration July 2025 - July

2025)
Processed vibration signal data from real industrial bearings and used classification models to predict failure stages.

Smart City Traffic Pattern Forecasting (Duration July 2025 - August 2025)
Forecasted traffic volumes at major junctions using Facebook Prophet and seasonal decomposition to assist urban infrastructure planning.

Gearbox Fault Detection using Vibration Sensors (Duration June 2025 - July 2025)
Engineered features from time-series data collected under varying load conditions to classify healthy vs broken-tooth gearbox states.

Mining Process Quality Prediction (Duration June 2025 - July 2025)
Predicted silica concentration in iron ore concentrate from real flotation plant data to optimize quality and reduce waste.

Continuous Manufacturing Process Output Modeling (Duration June 2025 - June 2025)
Built models to predict sensor measurements at various stages of a high-speed continuous-flow production line for anomaly detection.

SKILLS AND ACHIEVEMENTS

Skills	Python,Python Development,Python Data Analytics,Machine Learning,Web Development(HTML, CSS, JavaScript, SQL),Communication Skills,Business Intelligence, AI Tools,Mind Mapping etc.
Language	English (Both), Hindi (Both), Marathi (Both)
Test score	NEET-320(Got BDS Seat)-Without Coaching MHT-CET-83.28(2023)-Without Coaching

WORK EXPERIENCE

Total Experience	1.5 months
Company Name	UniConverge Technologies
Duration	July 2025 - Present
Job Profile	Internship Trainee