

SANIYA INAMDAR

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in [saniya-inamdar](#) 🌐 [CodeFor2001](#)

EDUCATION

University Of Southampton, United Kingdom

Sep 2024 – 2025

Master of Science, Computer Science

Vishwakarma University, Pune, India

July 2019 – May 2023

Bachelor of Technology, Computer Science and Engineering

CGPA: 9.3

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Dart, Java, Python, R, ABAP

Technologies: NodeJS, Docker, React, Flutter, Tableau, Power BI, Hadoop, SAP BW4HANA

Machine Learning: Transformers, Agentic AI, LLM,RAG, MCP, NLP, Deep Learning, Tensorflow, Pytorch

Database: MongoDB, SQL, Pinecone

EXPERIENCE

GuardStar

Dec 2024 – Present

Software Development Engineer (Part-time)

Southampton, UK

Node.js | MongoDB | Flutter | React | LoRaWAN

- Developed a fully-featured, scalable full-stack **admin panel** for managing users and platform content, including features such as waitlist management, live sensor data, sensor calibration offsets and notification preferences.
- Developed a **mobile application** with **internationalisation** for near **real-time sensor data visualization and analytics**, integrating checklist management, alerting system, and historical log storage.
- Developed a guided **HACCP Plan Generator**, modeling hazard analyses, CCP identification, critical limits, monitoring procedures, corrective actions, and PDF/Word export to **automate compliance**.

Infineon Technologies Pvt. Ltd.

Jul 2022 – Aug 2024

Business Analyst

Bangalore, India

SAP BW | Tableau | Tableau Prep | SAP HANA | Hadoop | SAC | ABAP | SDI | SQL | Python | Confluence

- Spearheaded in-house migration to **BW/4HANA**, delivering a fully tailored solution without third-party help, saving significant costs.
- Programmed **big data manipulation** using **ABAP routines**, accelerating SAP data processing and operational efficiency.
- Led three major **end-to-end production system projects** in SAP Finance modules, managing cross-functional teams to deliver all objectives on schedule.
- Enhanced user experience by driving **feature implementations** and **change management** across core **SAP modules** (SCM, Purchasing, CO, Finance).
- Built **dashboard solutions and Confluence integrations**, improving data visualization and stakeholder accessibility.
- Streamlined **data workflows** with **Tableau Prep, SQL, and Python**, optimizing pipelines and reporting systems.
- Integrated **Hadoop and SAP HANA**, enhancing **analytics capabilities** and accelerating data-driven decision-making.

Kasetsart University

Jan 2021– May 2021

Machine Learning Research Intern

Thailand (Remote)

Pytorch | TorchAudio | Librosa | LSTMs | Python

- Developed a deep learning model achieving **97% accuracy** for **leakage detection** in water distribution pipelines.
- Conducted a comparative analysis of neural network algorithms, **fine-tuning** performance for audio data processing.
- Designed and implemented an **audio feature extraction pipeline** using Librosa, enabling efficient preprocessing for machine learning models.

PROJECTS

Matrix Profile enhanced Feature Extraction for Brain EEG Classification (Ongoing)

- Open source contribution to aeon-toolkit to have multivariate **GPU Matrix Profile transformer** and **MatrixProfileIncremental** estimator
- ML pipeline and implementation of **HC2** and **MultiRocket Hydra** for TSC on EEG data

Persistent Click-Element Tracker with Context Graph

- Built **JavaScript plug-in** that tags only the elements a user clicks, assigning each a permanent ID so tests and analytics stay valid after layout or CSS changes.
- Runs a **lightweight neural network** in the browser and a Python service (**Pinecone + Neo4j**) to re-identify the same clicked element in < 50 ms with $\approx 90\%$ accuracy.
- Added an interactive **DOM graph** view that lets engineers inspect each clicked element in a tree/graph and see its live relationships to parent, sibling, and child nodes for fast debugging.
- Auto-captured webpage snapshots** with Puppeteer and trained the model, boosting match accuracy to 92 %, then shipped the stack in Docker

CERTIFICATIONS

Harvard Business School: Business Analytics 