Siddhesh Sanjay Amrutkar

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EDUCATION

VIT Pune — **Maharashtra, India**
BTech - CSE(AIML) — *Oct'24 - Jul'28*

Akshara International School — **Pune, Maharashtra, India**
Higher Secondary Education — *Apr'23 - Apr'24*

TECHNICAL SKILLS

Programming Languages: Python
Libraries and Tools: Sklearn, Keras, Pandas, Numpy, OpenCV, Mediapipe, Git
ML Architectures & Data Science: Logistic Regression, Random Forest, SVM, Data Preprocessing, Model Evaluation (F1, ROC, etc.)
Internet of Things (IoT): Raspberry Pi 4 – GPIO control, Sensor Integration, Motion Detection
Artificial Intelligence & LLMs: LangChain, LangGraph, AutoGen, CrewAI, RAG (Retrieval-Augmented Generation), AI Agent Development & Multi-Agent Systems, Prompt Engineering & LLM Optimization

WORK EXPERIENCE

Microsoft AI & Cloud Internship Program — **Apr'25 - May'25**
Microsoft x Shell x AICTE

- Completed a 4-week certified internship on Foundations of AI, organized by Microsoft.
- Gained hands-on experience with AI algorithms, cloud integration using Azure, and Generative AI tools like Microsoft Copilot.
- Engaged in expert-led bootcamps, real-world project applications, and earned official certification.

AI for Green Skills Intern — **Dec'24 - Jan'25**
Edunet x Shell x AICTE

- Developed an AI-powered Multiple Disease Prediction System for Diabetes, Heart Disease & Parkinson's.
- Applied ML algorithms and data preprocessing techniques; evaluated models using F1-score, AUC-ROC.
- Participated in mentoring sessions, project showcases, and implemented expert feedback.

Data Analytics Intern — **Oct'24 - Nov'24**
Connecting Dreams Foundation – VOIS for Tech x AICTE

- Conducted AI-driven analysis on agriculture & S&T datasets; built visual reports.
- Attended masterclasses and earned certification in AI-based data analytics.

PROJECTS

- **Smart Emergency Response System: IoT-Powered Fall Detection & Door Automation** GitHub
  - Designed a real-time fall detection system using Raspberry Pi 4, motion detection and computer vision.
  - Integrated a camera module to detect falls and trigger emergency alerts with automatic door unlocking.
  - Addressed hardware-software integration issues and tested for real-world accuracy.
- **AI-Powered Disease Prediction System** Github
  - Built a ML-based prediction system for heart disease, Parkinson's and diabetes using supervised learning.
  - Implemented Logistic Regression, Random Forest, and SVM; evaluated with F1 score, ROC-AUC, etc.
  - Created a Streamlit dashboard for real-time input and prediction; used Pandas, NumPy, Scikit-learn, Matplotlib.

EXTRACURRICULAR ACTIVITIES

Software Volunteer, Vishwanoids — **Dec'24-Present**

Cognizance'25, IIT Roorkee — **Mar'25**

- Crawl-O-Tron: Built a compact wired/wireless crawling robot capable of traversing a 2 -meter rope stretch, in an inverted position in 5 seconds.
- Super Strikers: Operated a manually controlled robot in a dynamic arena-based game resembling robot soccer & Gained practical experience in robot piloting, mechanical stability.

SWOT ANALYSIS

- **Strenghts**
  Strong foundation in AI/ML and IoT-based systems
  Quick learner with hands-on project experience
  Effective communicator and team collaborator
  High performance under competitive environments
- **Weaknesses**
  Limited industry exposure beyond academic/internship experience
  Tendency to over-engineer initial prototypes
- **Opportunities**
  Rapidly expanding AI and IoT industry with demand for multi-skilled professionals
  Access to tech festivals, global internships, and Microsoft's AI learning ecosystem
- **Threats**
  Fast-paced technological change requiring continuous upskilling
  Competition from peers with advanced specialization or global exposure

SHORT-TERM GOALS (2025-2026)

- Secure an AI/ML internship or research opportunity with real-world deployment.
- Build 2–3 open-source or GitHub-recognized end-to-end ML/IoT systems.
- Present a paper/project at a technical symposium or conference (e.g., IEEE, Springer).

ACHIEVEMENTS

- **Cognizance'25 (IIT Roorkee)**: Completed the Crawl-O-Tron robot challenge in just 5 seconds
- **AICTE–Microsoft AI Internship (2025)**: Completed 4-week certified internship on Foundations of AI
- **Streamlit Dashboard Projects**: Built and deployed ML-powered interactive UIs for disease diagnostics