

Abhay Tale

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EDUCATION

Bachelor of Technology (Artificial Intelligence and Data Science)

Datta Meghe Institute of Higher Education and Research

Wardha, MH

Oct 2022 – May 2026

HSC Board

Shree Samartha jr. College Akola

Akola, MH

July 2022

SSC Board

Shree Jageshwar Vidyalaya, Wadegaon

Akola, MH

March 2020

EXPERIENCE

Event Co-ordinator Head

IEEE Student Branch

July 2024 - Present

FEAT, DMIHER

- Organizing and managing technical events and workshops within the college to promote innovation and skill development.

Co-Founder

Apna IIT

Present

Shegaon, MH

- Empowering non-IITians with career resources and skill-building opportunities.

Internship

Arohi Software and Development

July 2024 – Oct 2024

Shrigonda, MH

- Performed data cleaning and preprocessing on large datasets using Excel and Python, ensuring accuracy and consistency for analysis.

PROJECTS

Breast Cancer Detection Using Ultrasound Images | *Python, TensorFlow, Keras, Matplotlib, NumPy*

- Developed a breast cancer detection system using ultrasound images, achieving 97% accuracy in classifying tumors as benign or malignant through advanced image processing techniques.

Electronic Nose Using Various Sensor Arrays | *Arduino, Python, Sensor Modules, Pandas, NumPy, Scikit-learn*

- Developing a prototype integrating MQ-series gas sensors (MQ-2, MQ-4, MQ-5, MQ-6, MQ-135) for odor detection, coupled with machine learning for data analysis.

Portable Dialysis Machine Using Microfluidics | *Microfluidic components, Arduino, C++, Semi-Permeable Membrane*

- Designed a cost-effective microfluidic-based portable dialysis system for patients with limited access to healthcare facilities.

TECHNICAL SKILLS

Languages: Python, HTML/CSS

Frameworks: Flask

Data Analysis: Data cleaning, analysis, and visualization using Python, Pandas, Matplotlib and Seaborn

Machine Learning: Building classification and regression models with TensorFlow and Scikit-learn

Developer Tools: Git, GitHub

Libraries: Pandas, NumPy, Matplotlib, Tensorflow, Seaborn

Healthcare Hardware: Sensors, IoT, OpenCV