DAKSH VYAWHARE

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EDUCATION

Bachelor of Technology *(Electrical Engineering)* **(Aug 2023 – May 2027)**
Institute of Infrastructure, Technology, Research And Management, Ahmedabad. *Current CPI: 9.64*
Senior Secondary Education (Class XII), CBSE **2023,** *Percentage: 92.4%*

PUBLICATIONS

Journal Publications

Cu-Complex Encapsulated Hybrid Catalyst for Reaction Prediction using ML. *ChemPhysChem*, 2025.
Rohit Prajapati, Jetal Chaudhari, Parikshit Paredi, Daksh Vyawhare, *et al.*. Link

A Hybrid Framework with Wavelet and ML for Internal Fault Detection in Power Transformers: An Experimental Approach. *(Under Review)*. Pravin Magdum, Jetal Chaudhari, Daksh Vyawhare, *et al.*

Conference Papers

Differential Protection of Power Transformers using DWT and CNN. *TPEC 2025, Texas.* Daksh Vyawhare, Jetal Chaudhari, *et al.*. Link

Automated Detection of PLM using EMG Signal and CNN. *ICCCNT 2025, IIT Indore (Accepted & Presented).* Daksh Vyawhare, Hardik Telangore, Manish Sharma, *et al.*

PATENT

System and Method for Assessing Asthma from Exhalation Air through Deep Learning
Application No. 202521059524 — SSIP Funded — **Status: Published** *Filed: June 2025*

PROJECTS

Machine-Learning Assisted Sensor System for Asthma Diagnosis and Monitoring
Team Lead — Funded under SSIP — Rs 50,000 (Prototype) + Rs 30,000 (Patent Filing) *Oct 2024 – Present*

CVMI Stage Classification via Vertebrae Segmentation and Deep Learning
In collaboration with Bankers Hospital, Ahmedabad *May 2025 – Present*

CERTIFICATIONS

Machine Learning with Python – IBM (Coursera) Certificate *Jan 2025*

SKILLS

Programming: Python, SQL, MATLAB (Simulink)
Libraries/Tools: NumPy, Pandas, Scikit-learn, TensorFlow, OpenCV, Matplotlib, Seaborn
Deep Learning: MLP, CNN, RNN, LSTM
Techniques: Regression, Classification, Clustering
Others: Image Processing, LaTeX, Overleaf, Git, Streamlit

ROLES AND RESPONSIBILITIES

IEEE Student Member *Jul 2025 – Present*
Student Coordinator, Avish Club, IITRAM *Aug 2024 – Jul 2025*
Member, Dayatva (Social Club), IITRAM *Feb 2024 – Present*

REFERENCES

Dr. Rahul Kumar (Assistant Professor, EE Dept., IITRAM) rahulkumar@iitram.ac.in
Dr. Krupa Shah (Assistant Professor, EE Dept., IITRAM) krupashah@iitram.ac.in