

Vibhanshu Waghmare

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Rukhmini Nagar Sawangi Meghe, Wardha, Maharashtra, 442001

SKILLS

Programming Languages: Python, SQL, Computer Vision.

Data Analysis: Pandas, Numpy, Matplotlib, FastAPI, Flask, Edge Computing, TensorFlow, Keras, PyTorch, IOT, Machine Learning, NLP, Deep Learning, Seaborn, YOLO, scikit-learn.

Analytical Tools: MATLAB, IBM Watson Analytics, Linux, Tableau, Power Bi, ROS.

PROFESSIONAL EXPERIENCE

ISRO NRSC

Jul 2024 - Dec 2024

AI and Data Science Intern

- Title - "**AI Autonomous Rover for Space and Agriculture Application.**" [Research Paper](#)
- Working on AIOT Technology.
- Building Autonomous rover with LiDAR Mapping.
- Working with Robotics, **ROS** and **NLP**.
- Developing AI models for image processing and autonomous decision-making using statistical analysis and **machine learning** algorithms.
- Guided By - **Srinivas Reddy P, Scientist SF, SPOD/TEOG, NRSC/ISRO** (EMAIL- reddypsrinivas@nrsc.gov.in)

Brainovision Solutions Pvt. Ltd

Jan 2024 - Mar 2024

Data Science intern

- Learning and **Building ML models** on different study cases.
- Project - **Customer Segmentation using K-means Algorithm.**

ARIES & IAS

May 2023 - Aug 2023

Research Fellowship Intern

- Title - "**Concept of Daytime Operation of ARIES Micro Pulse LiDAR (AMPL).**"
 - Working on Two major Instruments HEPL and MPL (LiDAR) Designing the instrumental structure for Daytime working of Atmospheric MPL.
 - Building an algorithm for **real-time Data acquisition and Data visualization.**
 - Building and refining data acquisition and visualization algorithms for atmospheric analysis, handling cloud-based data processing.
 - Guided By - **Chandra Prakash, Engineer-E, ARIES** (EMAIL- chandra@aries.res.in)
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EDUCATION & CERTIFICATIONS

Bachelor of Engineering (B.E)

Majors: **Artificial Intelligence and Data Science**
Sandip Institute of Technology and Research Centre

HSC (12th) - 97.5%

School of Brillents and Junior college

SSC (10th) - 92%

Alphonsa High School

Data Analysis with Python IBM

Microsoft Azure DP-900, Microsoft

Mathematics for Machine Learning: Linear Algebra
Imperial College London

MATLAB ON RAMP, MATLAB MathWorks

PROJECTS

Real-time Data Acquisition and Visualization of Lidar, ARIES [Link](#)

Predicting Temperature x Humidity (Real-Time), SUN-HACK2024 (esds) [Link](#)

Customer Segmentation, BrainOvision Solutions Pvt. Ltd [Link](#)

AWARDS

Data Science Hackathon 1st Winner

Brainovision Solution Pvt. Ltd

- ML algorithm deployment like Linear regression and Random forest regression
- Evaluation matrix (MSE, R2, MAE)