KIRTI PRATIHAR

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Github : https://github.com/KirtiPratihar

SKILLS

- **Programming:** Python, C++, Java

- **Machine Learning & Data Science:** Supervised Learning (Linear & Logistic Regression, Regularization, Gradient Descent), pandas, NumPy, scikit-learn, matplotlib, Data Preprocessing, Model Evaluation, TensorFlow, Pytorch, Keras, Neural Network, XGboost

- **Web Development:** HTML, CSS

- **Databases:** MySQL, Oracle SQL

- **Tools & Platforms:** Git, GitHub, Jupyter Notebook, Figma

- **Other Skills:** OOP, Algorithms & Data Structures

- **Soft Skills:** Leadership, Teamwork, Communication, Problem-Solving, Time Management

EDUCATION

- ❖ VIT Bhopal University, Bachelor of Technology in Computer Science with Artificial Intelligence and Machine Learning   GPA:9.0|(Expected: 2027)

- ❖ XII (CBSE)|Kendriya Vidyalaya Bamangachi   *84.4%| 2023*

- ❖ X(CBSE)|Kendriya Vidyalaya Bamangachi   *95.2%| 2021*

WORK EXPERIENCE

- ❖ **India Space Lab Winter Internship Technical Training Winter 2025(**December-January 2025)
  - Executed **advanced drone flight operations, CubeSat integration, and CanSat deployment**.
  - Collaborated with **industry experts** to analyze **space exploration technologies and engineering frameworks**.

- ❖ **Matrix Club – Technical Lead (VIT Bhopal University**)(January 2025 – Present)
  - Spearheading **technical execution** for **Adreel Fiesta** & **Escape the Matrix**, enhancing **event engagement**.
  - Orchestrating **digital infrastructure, web platforms, and automation systems** for seamless event management.
  - Developing **interactive challenges and gamified experiences** to boost participant engagement.

- ❖ **OpenSource Contributor | Hacktoberfest**
  October 2024

- Engineered **efficient code contributions**, earning the **3rd badge** for impactful open-source development.
- Optimized **codebases and software solutions** through structured pull requests and peer collaborations.

PROJECTS

- ❖ **Breast Cancer Prediction using ML Models ([Link](#))** September 2024
  - Designed a **machine learning pipeline** to compare **Logistic Regression, Random Forest, and SVM** for breast cancer detection.
  - Achieved **95%+ accuracy** using optimized hyperparameters and evaluated models with **precision, recall, and F1-score**.
  - Published a **research paper** as the **corresponding author**, contributing to medical diagnostics.
  - **Tech Stack:** Python, scikit-learn, pandas, matplotlib

- ❖ **Aapki Sakhi ([Link](#))**
  August 2024
  - Developed a **platform connecting rural women with NGOs** for menstrual hygiene support and donations.
  - Integrated **video, audio, and text-based feedback** for product reviews and awareness.
  - Deployed a **fully functional website**: [Aapki Sakhi](#)
  - ☐ **Tech Stack:** HTML, CSS, JavaScript, Python, MySQL

ACHIEVEMENTS / CERTIFICATES

- ❖ **India Space Lab Internship Exam** – Ranked 79 in a merit-based exam for the [ISL Internship](#) .

- ❖ **1st Prize – InnovMinds Expo Hackathon (VIT Bhopal, Feb 2025):** Developed a dementia support app with AI-based classification and real-time assistance.

- ❖ **Technical Lead**(Matrix Club)- VIT Bhopal University

- ❖ **Core Member Technical Team** (Bit By Bit Club)- VIT Bhopal University [certificate](#)

- ❖ **AI/ML For Geodata Analysis** (Indian Institute of Remote Sensing (IIRS), Indian Space Research Organization (ISRO) - Sep 2024 [Certificate](#)

- ❖ **IU Indianapolis Insights on Computational Data Science** (Indiana University Indianapolis)- Nov 2024 [Certificate](#)

- ❖ **Supervised Machine Learning: Regression and Classification** (Stanford University)-Jan 2025 [Certificate](#)

- ❖ **Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning** (DeepLearning.AI)-March 2025 [Certificate](#)

- ❖ **Advanced Learning Algorithms** (Stanford University)-May 2025 [Certificate](#)