KRITI PORWAL

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EDUCATION

- **VIT Bhopal University, Bhopal** September 2022 - May 2026
  Bachelor of Technology in Computer Science | CGPA: 8.83
- **Heritage International School, Kanpur** May 2022
  Higher Secondary Certificate (CBSE Board) | Percentage: 82.60%
- **Shri Ram Public School, Kanpur** May 2020
  Secondary School Certificate (CBSE Board) | Percentage: 94.50%

TECHNICAL SKILLS

Data & Visualization: Python, Pandas, NumPy, Streamlit, Plotly, Matplotlib
Machine Learning: Scikit-learn, Predictive-Modeling, Model validation, MLOps
Databases & APIs: SQL, REST APIs, Data pipelines
Tools: Git, GitHub, VS Code, Postman
Product & Business: Product-Strategy, Market analysis, Stakeholder collaboration

PROJECTS

Solar Panel Efficiency & Prediction MLOps | GitHub **January 2026**
Tech Stack: Python, Pandas, Scikit-learn, Streamlit, ML, MLOps

- Built an **end-to-end solar performance prediction product** to estimate panel efficiency and expected power output, supporting revenue estimation and solar loan readiness decisions.
- Developed a **Streamlit-based dashboard** to visualize predicted vs. actual performance, efficiency trends, and deviations—key indicators used in **solar lending risk assessment**.
- Implemented a **scalable ML pipeline (MLOps)** covering data ingestion, model training, validation, and deployment to ensure consistent and repeatable product workflows.
- Defined **product KPIs** such as forecast accuracy, efficiency degradation, and performance variability to align the solution with **lender, EPC, and operations stakeholder needs**.

Solar Energy Generation Forecasting & Performance Dashboard | Github **December 2025**
Tech Stack: Python, Pandas, Streamlit, Data Visualization, Forecasting

- Developed a **solar energy forecasting and visualization product** to estimate power generation potential and performance trends for solar installations.
- Built interactive dashboards to visualize **forecasted vs. expected energy generation, seasonal trends, and location-based performance**, enabling data-driven product and financing decisions.
- Analyzed historical irradiation and generation data to assess **generation variability and reliability**, key factors influencing solar project risk and loan viability.
- Designed the solution with a **product mindset**, focusing on clear KPIs and insights relevant to stakeholders such as **risk teams, sales teams, and operations**.

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2025 Certified Data Science Professional**
- **Oracle Cloud Infrastructure 2025 Generative AI Professional**

ACHIEVEMENTS

First Place in Urja Shakti Write-up Competition (UG Category) , Awarded by RGIPT (Institute of National Importance)

- Won First Place in the **Urja Shakti Competition** by presenting a concise, insight-driven solution focused on **energy efficiency and sustainable energy adoption**, evaluated by senior industry panelists.
- Translated complex energy concepts into **clear, decision-oriented insights**, demonstrating product storytelling and impact-driven communication.

EXTRACURRICULAR ACTIVITIES

Core Member, Data Science Club

- Leveraged machine learning techniques to analyze customer churn data, identifying key predictors and developing targeted strategies decreased churn rate by 15% within six months.

Core Member, Software Development Club

- Led cross-functional teams building innovative web applications, mentored 50+ junior developers, and architected scalable solutions, increasing project efficiency by 40%.