

Muvvala Krishna Kiriti

 E40R |  Muvvala Kiriti |  muvvalakiriti@gmail.com |  +91 7013378027 | Hyderabad, India

PROFILE

Product-oriented professional with strong analytical skills and hands-on exposure to solar energy systems and sustainability-driven solutions. Experienced in evaluating cost-efficiency trade-offs, asset performance, and return-on-investment drivers in solar implementations. Demonstrated ability to translate technical and market insights into product decisions, with a keen interest in solar financing, lending feasibility, and risk-aware product design to support scalable renewable energy adoption.

EDUCATION

Vellore Institute of Technology, Bhopal

B.Tech in Electronics and Communication Engineering (AI & Cybernetics)

CGPA: 8.33 / 10

Graduating July 2026

PROJECTS

Smart Domotics with Solar-Integrated Energy Control

Aug 2022

Product Strategy & Market Analysis, ROI Analysis, Sustainability & Renewable Energy Economics

- Identified high electricity costs as a customer pain point and framed the problem from a **cost-reduction and payback perspective** using rooftop solar integration.
- Analysed trade-offs between **system cost, energy savings, and reliability** to maximise long-term value.
- Designed a solar-integrated energy control approach to **maximise self-consumption**, improving savings for the end user.

Automatic Solar Panel Orientation System for Energy Optimization

May 2024

Solar Energy Optimization, Product Design, Rooftop Solar Systems

- Designed a solar optimisation solution aimed at **improving energy yield per panel**, directly impacting **return on investment (ROI)**.
- Assessed design trade-offs to balance **capital cost vs incremental energy gains**, relevant to and lending decisions.
- Positioned the solution as a way to improve financial viability and predictability of solar assets.

Mini Project: Rooftop Solar Loan Feasibility Analysis

May 2024

- Analysed a rooftop solar installation case covering **system cost, expected energy yield, EMI, and payback period**.
- Identified key **risk factors affecting loan servicing**, including asset performance and tariff assumptions.
- Evaluated feasibility from a **lender's and customer's perspective**.

EXPERIENCE

AI Intern – Product Development, Infosys

Sep 2025 – Dec 2025

- Supported data-driven product decisions by analysing usage patterns and prioritising features based on impact and feasibility. Assisted in defining product requirements and success metrics.
- Worked with stakeholders to balance cost, delivery timelines, and long-term product value.

Finance & Planning Lead (Student Organization)

Aug 2022 – Present

- Managed budgeting and expense planning for multiple initiatives, ensuring spend control and financial accountability.
- Performed post-event expense reconciliation and reporting.
- Coordinated with multiple stakeholders to align financial plans with approvals and execution timelines.

HONORS, AWARDS & HACKATHONS

- Advanced to Round 2 at **ISB Neovate** by performing market analysis and presenting an **MVP** to stakeholders.
- Proposed an innovative AI-based solution for visually impaired users at **IIT Kharagpur Empresario**, submitted a detailed pitch deck, and received mentorship during evaluation.
- Co-authored a Springer-published research paper (2025) involving detailed research and analysis of data-driven education systems.

SOLAR FINANCE & MARKET EXPOSURE

- Evaluated residential rooftop solar adoption in Telangana, including system costs (Rs 1.4–1.5 lakh for 3 kW) and central subsidies under **PM Surya Ghar** (up to Rs 78,000), assessing impact on payback period and customer affordability.
- Personal application insight: evaluated home solar installation costs and subsidy benefits firsthand.
- Familiar with central solar support for agricultural pumps under **PM-KUSUM** (providing 30% subsidy on panel costs), illustrating how government programmes impact credit risk, asset performance, and lender product design.