Prakhar Jain

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Education

Vellore Institute of Technology
B.Tech in Computer Science and Engineering, CGPA: **8.84/10** October 2022 - July 2026

Key Skills

- **Financial & Analytical**: Portfolio Analytics, Market Trend Analysis, Excel, Power BI.
- **Product & Strategy**: Product Research, Documentation, Understanding of Government Solar Schemes.
- **Communication & Leadership:** Strong Verbal & Written Communication, Team Coordination & Leadership,

Projects

Solar Market Research
Tools: Excel, Power BI, Google Forms, Internet Research, Canva, PowerPoint

- Conducted research on rooftop & ground-mounted solar adoption in India.
- Analysed customer pain points, average installation cost, payback period, and DISCOM policy variations using Power BI.
- Studied competitors like Tata Power Solar, Loom Solar, and NBFC players offering solar loans.
- Prepared insights for designing customer-friendly solar financing products.

Solar Loan Product Design
Tools: Excel, Google Sheets, PowerPoint, Canva,Figma,

- Designed a conceptual solar loan product tailored for residential rooftop customers.
- Defined product features such as loan tenure, interest range, margin guidelines, documentation, and eligibility criteria.
- Benchmarked offerings of major NBFCs and banks to identify gaps and opportunities.
- Created a product note outlining risk mitigations, customer benefits, and process flow.

Cropify: Agriculture Analytics Project
Tools: Python, Pandas, Flask, TensorFlow, Numpy, Matplotlib.

- Designed and implemented a multimodal prediction system that integrates independent models trained on soil and weather data for robust crop forecasting and both the model accuracy is above 85 percent.
- Conducted research on soil and weather-based decision-making, showcasing strong ability in market analysis & insight development, similar to understanding borrower segments & project viability in solar lending.
- Utilized data analysis to derive actionable insights, similar to creating credit metrics for **solar borrowers**.
- Delivered recommendations useful for resource allocation decisions, parallel to **solar project feasibility assessments.**
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Accident Detection Using Yolo
Tools: Python, OpenCV, YOLO (You Only Look Once), TensorFlow, Numpy, Matplotlib

- Developed a real-time accident detection system leveraging YOLO-based deep learning architecture to identify vehicular accidents in surveillance footage.
- Processed video streams frame-by-frame using OpenCV and deep learning models for precise localization and classification of accident scenarios.
- Conducted extensive performance evaluation using real-world datasets, achieving high accuracy with low false positive/negative rates and the model accuracy is approx. 90 percent.

Extracurricular Activities

- BitByBit club [VIT Bhopal University]: Organized & coordinated technical events, improving leadership and stakeholder communication.
- Microsoft club[VIT Bhopal University]: Contributed to planning and organizing technical workshops, Enhanced analytical reasoning through structured challenges
- Frequently led small project groups, ensuring timely delivery and effective communication.
- Recognized for structured problem-solving and high-quality documentation

Languages: Hindi (Native), English (Proficient)
Interests: Reading about Renewable Energy, Art & Craft