

Vishal Khandelwal

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SUMMARY

AI and product innovation professional skilled in bridging technology, design, and business to deliver impactful digital solutions. Experienced in AI-driven product development, UX design, and operational analytics. Passionate about building SaaS products that enhance public service outcomes through data-driven decision-making and user-focused design.

EDUCATION

- National Institute of Technology Calicut** Calicut, India
 - Bachelor of Technology - Material Science; GPA: 8.27* Dec 2021 - May 2025
 - Courses: IBM AI Engineering Professional Certificate, Coursera (In Progress ,2025), AWS Cloud Solutions Architect, Coursera (In Progress, 2025)*

SKILLS SUMMARY

- Product Analytics:** Product Strategy, User Research, Product Discovery, Wireframing, Roadmapping, Data-Driven Decision Making
- Technical:** Python, SQL, JavaScript, React.js, Flask, Node.js, TensorFlow, Keras, Pandas, NumPy
- Cloud Tools:** Google Cloud, AWS (S3, EC2), Figma, GitHub, Power BI, Tableau
- Soft Skills:** Leadership, Cross-Functional Collaboration, Communication, Critical Thinking, Time Management

EXPERIENCE

- Landmark Group** On-Site
 - Executive Trainee (Supply Chain and Product Innovation)* July 2025 - Present
 - Initiative:** Designed and deployed a multi-warehouse container tracking system, reducing manual reporting by 70percent.
 - Project:** Developed an AI-assisted delivery communication system using PDF parsing and OpenAI API integration.
 - Developed and deployed a Pallet Tracker system:** To monitor pallet transfers across 20,000+ warehouse assets, enabling real-time tracking, automated reporting, and improved warehouse accountability.
- PentaDots** Remote
 - UI/UX Designer Intern* Oct 2023 - Jan 2024
 - Research and Testing:** Conducted iterative user research and feedback testing, aligning design outputs with user goals and business requirements.
 - Collaboration:** Collaborated with developers to ensure consistent design implementation and interaction accuracy across web platforms
 - Designed:** Designed intuitive, high-fidelity UI prototypes for SaaS products in Figma, improving client product usability.
- IIT Bombay** On-Site
 - ML Research Intern* May 2024 - Jul 2024
 - ML Model:** Built and optimized a U-Net segmentation model for material microstructure classification
 - Android Deveolpment:** Deployed via Flask API and Android app, turning a complex research model into a usable digital product.
- St. Vincent's Home** Remote
 - Full Stack Developer (Social Impact Project)* Oct 2024 - Feb 2025
 - Social Service:** Led end-to-end development of a social welfare website, connecting donors with beneficiaries.
 - User Friendly:** Focused on usability and accessibility, improving engagement metrics and platform efficiency.
- DCM Shriram Ltd.** On-Site
 - Project Intern (Polymer dept)* Jan 2025 - Mar 2025
 - Compounding:** Analyzed QA processes for medical-grade PVC compounds, identifying process optimization opportunities.
 - Analysis:** Provided data-driven insights to improve product stability and reduce waste during production cycles.

PROJECTS

- AI Skin-Care Recommendation Platform::** Built AI + web platform recommending skincare routines by gender and skin type using React, Express, and ML classification models.
- Options Trading Assistant:** Designed backend system applying ML-based decision support to identify optimal option pairs with high success probability.
- AI-Enabled Heart Attack Predictor:** Prototyped IoT-integrated wearable for real-time health risk prediction using biosensor data(On-Going).
- Ab-initio Modeling (Academic Research):** Computed optical and mechanical properties of FAPbI3 using DFT simulations (NITC Research Project).

LEADERSHIP COMMUNITY

- **Design Head – ISTE NITC Chapter:** Led design and tech events impacting 3,000+ students.
- **Design Head – IEDC Summit '24 (Kerala):** Coordinated state-level innovation and entrepreneurship initiatives.

CERTIFICATIONS

- IBM AI Engineering Professional Certificate – Coursera (11/13 Completed)
- AWS Cloud Solutions Architect (In Progress)
- Google TensorFlow Developer Certificate (Target 2025)