

Parth Khungar

Associate Product Manager

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Summary

Innovative Product and Project Specialist with 4 years of experience and a strong foundation in computer science and statistics. Proven expertise in leading cross-functional teams to deliver scalable technology solutions focused on data-driven decision-making across pharma and government (utilities) sectors. Demonstrated success in developing products and systems that drive measurable business outcomes and operational efficiencies. Skilled in Agile project management, stakeholder collaboration, and leveraging machine learning, IoT, and business intelligence to maximize product impact and optimize processes.

Work Experience

Associate Product Manager Sept 2024 - Present

PharmaSecure, Delhi

- Led rollout of Inventory Management System, automating ops across **6+** departments and introducing lifecycle tracking — delivered **under 25%** of budget and **unlocked new revenue opportunities**.
- Led development of AI/ML-driven fraud detection for pharma clients, enabling **real-time counterfeit alerts, hotspot prediction, and distributor risk scoring** — improved supply chain visibility and reduced counterfeit detection time by **90%**.
- Built data-driven analytics platform for non-pharma clients using **behavioural and lifecycle signals** to enhance campaign performance, uncover market opportunities, and optimize product flow across channels.
- Revamped and project-managed Power BI dashboard delivery, coordinating with cross-functional teams to drive **50% increase** in adoption across 10+ enterprise clients and improve customer engagement.

Project & Product Associate Aug 2022 - Aug 2024

CSIO, Govt. of India, Chandigarh

- Developed hybrid NILM algorithms with **97%+ accuracy** for similar appliance classification — solving a state-of-the-art challenge and enabling **20%+ energy savings** via real-time feedback systems.
- Partnered with **IGST German researchers** to adapt German NILM datasets, deploying advanced systems(**e-Sense**) in 3 Indian climate-resilient buildings and cutting energy use and unplanned outages.
- Published research in **ESPR (Springer)** on AI-driven groundwater quality monitoring, supporting sustainable water management under Jal Jeevan Mission.
- Directed end-to-end delivery of Tricity's first IoT-enabled water quality system under **Jal Jeevan Mission**; authored **10+ DPRs** and aligned with **10+ government bodies** to ensure successful deployment.
- Designed an intelligent water loss detection system (pilot phase), reducing **90%+ non-revenue water losses**, which account for **~40%** of total municipal supply.

Quality Analyst Jul 2021 - Jul 2022

Smart Energy Water, Noida

- Led QA efforts for 10+ smart utility projects**, ensuring timely UAT sign-off and strict adherence to quality standards, directly contributing to reliable product rollouts.
- Designed, executed, and tracked over 400 test cases and 600 defect logs**, managing regression testing and defect triage cycles that reduced post-deployment issues by **80%**.
- Documented and validated 100% of functional and technical requirements**, identifying critical system gaps and offering recommendations to improve product stability and user experience.
- Collaborated with 20+ member cross-functional teams (3 product, 13 dev, 2 design and 4 QA)** to monitor project timelines, ensure test coverage, and support sprint execution—contributing to **95%+ on-time releases**.
- Proactively proposed UI/UX enhancements** during QA cycles by identifying usability issues, which led to increased client satisfaction and adoption in multiple product deployments.

Research Machine Learning Intern Jan 2020 - Jul 2021

DRDO, Ministry of Defense, Govt. of India, Chandigarh

- Developed ML models to identify high-risk avalanche zones in Drass region (Kargil), **achieving 95% recall and enhancing safety** for army base operations.

- Engineered & optimized avalanche detection pipeline using 16 terrain features; **reduced feature set by 37%, cutting ~100 man-hours per map saving more than 2000 hours annually.**
- Developed semi-automated terrain labelling & hazard prediction framework using elevation-slope heuristics & optimized ML models, improving dataset accuracy & enabling **data-driven risk assessment for defence deployment.**

Relevant Skills

Product Management | Data-Driven Decision Making | Agile & Scrum Methodologies |
Cross-functional Collaboration | Stakeholder Engagement | Machine Learning (ML) | Project Management |
Real-time Monitoring Systems | Feature Engineering | IoT & Sensor Integration

Publications and Certifications

Kaur, H., Bansod, B.S., Khungar, P. et al. Combining clustering and ensemble learning for groundwater quality monitoring: a data-driven framework for sustainable water management. Environ Sci Pollut Res (2025).ESPR Journal - Springer Publication
link.springer.com/article/10.1007/s11356-025-36477-2

Completed specialized courses in Data Science, Machine Learning, and Data Analysis from IBM, Johns Hopkins University, and Udemy — including Python for Data Science, R Programming, and Data Visualization with Python

Gained foundational and cloud-native computing skills through certifications in AWS Fundamentals, Cloud Computing Basics (LearnQuest)

Leadership & Social Impact

- **State & District Roller Hockey Captain** (2015–Present): Led the District team to **2 Gold, 4 Silver, and 2 Bronze** medals at State Championships over 8 years; captained the State team to **Silver** at Open Nationals in debut senior category year.
- **Community Educator – Harnoor Madhar Foundation** (2020–Present): Initiated and scaled a weekend teaching program for underprivileged children; facilitated the **school enrollment of 60+ kids** via fundraising.
- **Fest Operations Lead – PEC Fest:** Headed Printing & Stationery operations; managed vendor relations, budgeting(**5 Lakhs**), and timely delivery of materials for college's flagship event.

Academic Projects

Android Malware Detection Using ELM
Conducted academic research on Venezuela's crisis, analyzing the correlation between economic policies, oil prices, and prosperity through case studies of failed strategies and potential alternatives.

Online Platform for Tiffin Service in Tricity
Developed one of Tricity's first online tiffin service platforms, enabling fair supplier visibility based on user ratings rather than external factors.

Education

Advance Diploma in Statistics(Distinction)	2023 - 2024
Punjab University, Chandigarh, India	
Bachelor of Technology in Computer Science and Engineering	2017 - 2021
Punjab Engineering College, Chandigarh, India	CGPA: 7.7/10
Class XII: All India Senior School Certificate Examination	2015 - 2017
Bhavan Vidyalaya, Chandigarh, India	89%
Class X: Central Board of Secondary Education	

