

Vinayak Pathak

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Professional Summary

Results-driven Computer Science Engineering student with expertise in product management, market research, and business strategy. Skilled in data-driven decision-making, problem-solving, and UX research. Seeking opportunities to drive impact through technology, strategy, and innovation.

Work Experience

ONGC Videsh Ltd.

Intern May 2024 – Jun 2024

- Conducted market research and competitive analysis for technology-driven solutions.
- Assisted in strategic planning for IT infrastructure optimization.
- Gained exposure to SAP modules and business process management.
- Contributed to documentation and reporting for internal assessments.

Foruppo

Product Fellow Mar 2024 – Jul 2024

- Led research-driven projects on consumer insights and product development.
- Collaborated with cross-functional teams on startup growth strategies.
- Built and maintained connections with industry professionals across India.

Growth Foundation of India

Intern Jul 2023 – Oct 2023

- Conducted extensive research on tribal health and education policies.
- Assisted in developing strategies for fundraising and community outreach.
- Contributed to project planning and impact assessment.
- Managed documentation and report writing for stakeholder communication.

Projects

SDOH-Based ZIP Code Area Health Forecasting

Co-Author — IEEE Conference Paper 2025

- Co-authored and implemented a pipeline using Random Forest, XGBoost, and SVR on SDOH data from 2,585 California ZIP codes.
- Achieved test R^2 of 0.992 with XGBoost and identified key determinants (income, education, food environment).
- Provided policy recommendations for integrating SDOH into health forecasting.

LLM Mathematical Reasoning with Genetic Algorithms

Research Lead — KIIT Deemed to be University 2024

- Applied a GA to evolve LLM reasoning paths by tuning sampling hyperparameters.
- Improved Math500 benchmark accuracy by 18.2pp without model fine-tuning.

Skills

- Data Analysis: Python, SQL, Excel
- Market Research & Business Analytics
- UX Research & A/B Testing
- Product Strategy & Roadmapping
- Business Planning & Strategy
- Agile Methodologies & Sprint Planning
- Leadership & Team Collaboration
- Communication & Presentation
- Critical Thinking & Problem Solving

Education

Kalinga Institute of Industrial Technology (KIIT)

2022 – Present

B.Tech in Computer Science Engineering

Relevant Coursework: Data Analytics, UX Design, Business Strategy, Product Management

Delhi Public School, Vasant Kunj

Graduated 2022

CBSE

Co-Curricular Achievements

- Core Member, Enactus KISS-KIIT (Feb 2023 – Present)
 - Led market research initiatives for social entrepreneurship projects.
 - Designed go-to-market strategies for sustainable business models.
 - Coordinated sponsorship acquisition and event management efforts.
 - Conducted impact-driven R&D for multiple projects.
- Finalist in Economics competition hosted by IIM Indore.
- Competed in multiple product-management and consulting case competitions nationwide