



Dattatreya Nayak

E-Mail: x25dattatreyan@iima.ac.in Mobile: +91 8197379841 LinkedIn: [linkedin.com/in/dattatreyanayak](https://www.linkedin.com/in/dattatreyanayak)

Summary

Strategic technology professional with **14 patents** and demonstrated ability to structure **ambiguous problems**, solve business challenges and create **P&L impact**. Expert in conducting deep technical analysis to identify root-causes, **optimize performance and cost**, and develop **data-driven recommendations** for product strategy. Adept at communicating findings and influencing decisions across engineering and business leadership.

Professional Experience

Staff Engineer | SanDisk, Western Digital | Bengaluru, India

- Achieved **1% uplift** in revenue for overall portable SSD by productizing SanDisk SSDs for **Apple Inc**, by optimizing scheduling algorithms for Apple's vague yet stringent requirements.
- Strengthened SanDisk's product portfolio for SSDs with **OEMs** by filing **2 patents** for performance algorithms by evaluating gaps between file transfers and scheduling.
- **Accelerated** a product release by **20%** by serving as Technical Consultant through proactive risk management, milestone planning, and zero-defect execution, releasing the product in under 5 months.
- Enabled timely milestone delivery under aggressive timelines by coordinating release plans with multiple engineering teams.
- Minimized delivery risks by identifying **3 critical issues** early, facilitating stakeholder discussions, and aligning product requirements with engineering feasibility.
- Mentored new talent under Leadership visibility, optimized onboarding time by **25%**, contributing to talent pipeline.

Senior Engineer | SanDisk, Western Digital | Bengaluru, India

- Enabled premium product positioning in memory solutions market by attaining a **2.6x improvement** in large files transfers from 380 MBps to 1000 MBps through memory upgrade for second-gen portable SSDs.
- Improved product value proposition by delivering **80% faster** small-file transfers from 1000 MBps to 1800 MBps for **second-gen** portable SSDs.
- Designed performance and data-recovery algorithms, identified potential features and whitespaces with architects for SanDisk portable SSD **first-gen** product, in a fast-growing **\$500M+** market.
- Enhanced collaboration and maintenance for long term product development by driving adoption of structured coding practices.

Engineer | SanDisk, Western Digital | Bengaluru, India

- Improved performance for heavy gaming solutions by developing software for **Nintendo Switch** storage solutions.
- Filed a patent to improve product reliability, by tracing inefficient resource utilization, ensuring data recovery capability.

Education

Bachelor of Technology, Computer Science and Engineering – *MIT Manipal* | India

Accomplishments

- **14 US patents** filed, with 5 grants and 9 pending, focused on using technology to enhance performance, quality, and reliability and optimize costs of SanDisk products to gain competitive IP advantage.
- One of the **youngest** mentors among **105 elite global** IP mentors at SanDisk, fostering innovation and strengthening IP portfolio.
- Finalist **8 out of 750** at **IdeaTank**, SanDisk's SharkTank, pitched an innovative patent idea to **save \$1M** in development cost.
- Honoured three consecutive times for exceptional performance, among ~300 employees, Consumer Solutions Group, SanDisk.

Certifications

Artificial Intelligence, Micro Certification, Product School
Product Management 101 by Todd Birzer, Udemy

Extra-Curriculars

- **Placement Vertical Head, PGPX**: Leading Technology vertical, engaging with recruiters and candidates, driving opportunities for 150+ students in Technology sectors.
- **Innovation Mentor**: Mentored 6 engineers through their first invention disclosures, guiding towards a problem-first and a first principles approach, building cross functional collaboration.
- **Coordinator**: Spearheaded the integration of online payment systems for college festivals at MIT Manipal, by collaborating with multiple student body stakeholders, delivered a seamless and reliable digital experience for participants.