

Naveen Silvester

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Strategic Technology Executive | AI/ML & Healthcare Tech Leader | 24+ Years Driving Transformative Solutions

PROFESSIONAL SUMMARY

Dynamic and strategic leader with over **24+ years of experience**, including 10+ years **spearheading AI/ML and automation initiatives** in Fortune 500 environments. Proven ability to **bridge cutting-edge technology with business impact**, delivering **Generative AI, predictive analytics, and self-healing systems** that drive efficiency, cost savings, and transformative outcomes.

- **High-Performance Team Builder:** Led **cross-functional teams** (Data Scientists, AI/ML Engineers, DevOps, and SMEs) to develop **GenAI chatbots, AI-driven diagnostics, and automation platforms**, improving system uptime to **99%** and reducing costs by **35%**.
 - **End-to-End Innovation:** Transformed ideas into **scalable PoCs/MVPs**—from computational biology tools to **patented AI solutions**—enhancing decision-making in **biopharma R&D and IT infrastructure**.
 - **Driving innovation in healthcare/biopharma:** **Patents** in AI/ML-driven resource optimization, transgenic biotechnology, and anomaly detection—applying **data science to accelerate drug discovery and operational resilience**.
 - **Navigating matrixed global organizations** (Dell, Monsanto, Accenture) with expertise in **stakeholder engagement** and **strategic roadmaps**.
 - **Strategic Thinker:** Reduced costs by **35%** and infrastructure downtime by **99%** through AI-driven automation (Self-heal system)
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Key Skills

- **Leadership:** Cross-functional team management | Agile/Scrum | Stakeholder Alignment | Innovation Culture
 - **Technology: Generative AI (OpenAI, GPT, LangChain)** | Python | DevOps | Elastic Search, Kibana and Logstash | **AI/ML** | Oracle | PostgreSQL | UI/UX | Splunk | Cloud |
 - **Innovation Management: PoC/MVP Development** | Market Analysis | Risk-Taking Mindset | Translate idea into reality | Embrace new technology | IP via Patent Generation
 - **Healthcare/Biopharma: Computational Biology** | LabWare LIMS | **Patents in Biotech & AI** | Predictive Analytics
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Professional Experience

DELL Technologies | Bangalore |

Sr. Product Manager – AI/ML, GenAI, Automation | Nov 2023– Oct 2024

- **GenAI Leadership:** Built an **AI chatbot (GenAI and RAG)** leveraging internal knowledge bases, **freeing 30% of engineering time** for strategic work.
- **Cost Optimization:** Spearheaded AI-driven infrastructure automation (Python/Ansible/StackStorm), cutting costs by **25%** and improving deployment speed by **80%**.
- **Award-Winning Innovation:** Won **Dell's Presidents Award** for automating server decommissioning (**90% manual effort reduction**).

Sr. Manager – AI/ML, Data Governance | Mar 2022–Nov 2023

- **Patented AI Solutions:** Led team to file **2 USPTO patents** (e.g., *AI-powered resource allocation*)
- **Innovation Leadership:** Directed AI/ML team in developing and patenting Operational Excellence solutions, including an AI-powered resource allocation system
- **IP Development:** Spearheaded end-to-end patent process from ideation to USPTO filing, strengthening company's AI intellectual property portfolio
- **Data Governance: Architected a global data audit automation platform** that standardized compliance across Dell's Infrastructure & Platform Engineering teams, enabling end-to-end governance of 50+ databases and devices worldwide.
- **DevOps integration (CI/CD):** Automated audit workflows, reducing manual oversight by **90%** while ensuring real-time compliance visibility for cross-functional stakeholders.
- **Scaled adoption** across 10+ global teams, unifying previously siloed data systems into a single **AI-ready governance framework**.

Sr. Program Manager – AI/ML, Technology Evaluation, Infrastructure Build Delivery | Jul 2021-Mar 2022

- **Led cross-functional teams** (engineers, SMEs, vendors, consultants) across global locations to evaluate and implement **AI/ML, blockchain, and automation solutions**, ensuring **100% on-time project delivery**.
- **Technology evaluation/PoC: Spearheaded technology evaluation and PoC development**, assessing consulting partners for **AI, ML, and blockchain** initiatives to align with Dell's innovation roadmap.
- **Blockchain PoC:** Partnered with consultants to build Dell's first **infrastructure blockchain prototype**.
- **Managed internal/external stakeholders** (IT, Admin, vendors) to align **software development (DevOps/CI-CD) with business objectives**, eliminating bottlenecks in project execution.

- **Drove AI/ML adoption** across internal teams, delivering **automation solutions** that optimized workflows in infrastructure and platform engineering.

Technical Program Manager – AI/ML, GoldenGate Technologies | Apr 2019–Jul 2021

- **Cross Functional, Domain & Geographical:** Managed complex projects which are cross-functional, cross-domain and cross-geographical location.
- **Project Management Practices:** Practice Standard project management methodologies and ensure timely communication to stakeholders of the project.
- **Leveraging Project Management Tools:** Manage project progress using Azure Dev Ops (Team Foundation Server), JIRA, Practice Agile/Scrum Daily Standup Meeting.
- **Audit:** Perform regular and surprise **audit** on the project development to ensure that the team follows and **practices the right methodologies**.
- **Coordination of Multiple Projects:** Coordinate multiple business critical projects (Artificial Intelligence, Machine Learning, Blockchain & GoldenGate Replication service, Server Decommissioning project for Dell Infrastructure team)

eCentric HR Solutions (Deployed at DELL Technologies) | Bangalore

Technical Program Manager – AI/ML (Service Oriented Architecture) | Jul 2018–Apr 2019

- **Program Management:** Coordinate multiple projects (Artificial Intelligence, Machine Learning, SOA Non-Prod & Service Account Remediation) across all phases of development for DELL's Enterprise Integration Services team (EIS).
- **Interdisciplinary Team:** Work as part of an interdisciplinary team (Data Scientists, Data Engineers, Data Management, Subject Matter Experts) to achieve project milestone
- **Project Planning and Execution:** Collaborate with development to plan **project sprints**. Implement and maintain development best practices such as Coding Standards, Code Review and Git version control. **Plan, develop and timely deploy** change management initiatives for technical implementation.

Excelra Knowledge Solutions | Bangalore

Site Lead & Senior Scientific Manager | Oct 2017–Jun 2018

- **Site Management:** Lead and build Excelra's Bangalore Site as the state-of-the-art facility for Pharma Analytics and Bio-IT hub for the organization.
- **Business Strategist:** Explore opportunities to **expand core business** into major new growth segments for the organization, especially in the area of Bio-IT services

(Computational Biology, Machine Learning & Software Development) and Clinical analytics (predictive analytics)

- **Marketing Strategy:** Provide **trainings to Marketing and Scientific team** on Bio-IT related topics which include, Machine Learning, **Predictive Analytics**, Artificial Intelligence, Computational Biology, **Software Development** etc. thereby enabling them to drive business and be prepared for the market needs.
- **Bio-IT solution Provider:** Lead team of IT and computational biologists towards providing Machine Learning and predictive analytics solutions to our esteemed **Pharma and Biotech clients across the globe**.

Accenture Solutions Pvt Ltd | Bangalore

Technology Architecture Delivery Manager | Jun 2017–Oct 2017

- **Technology Architectural Solutions:** Lead a team of 15-20 members having expertise in different domain (Functional Domain – SAP, Business Process – Finance & Accounting, Software Architecture, Cloud transition, Software Engineers, UI&UX team, Marketing team etc), working across various geographical locations (USA, Philippines, Canada & India) towards building Artificial Intelligence solutions.
- **Technology Consultation:** Interact with **Global Clients** from various industry segments and provide technology solutions to their technical challenges leveraging **Artificial Intelligence, Machine learning and Automation**.
- **Customer Outreach:** Work with **Sales & Marketing team** to reach out to various potential customers towards showcasing Artificial Intelligence capabilities and the benefits that the technology could bring within a given process in an organization.
- **AI Chatbot for Healthcare:** Led a global team to build a **procurement chatbot** for H&PS clients, later adopted by sales teams.

Monsanto Research Centre – INDIA | Bangalore

Senior Scientist/Process Improvement Platform lead | Apr 2006 – May 2017

- **Scientific Software Tool Development for Data-Driven Solutions:** Spearheaded development of scientific software tools integrating business and experimental data, enabling data-driven decision making across R&D
- **Data-Driven R&D:** Built a **LabWare LIMS-integrated platform** to streamline experimental data analysis.
- **Biotech Innovation:** Developed **computational biology tools** for transgenic plant research (leverage it in patents and white paper publications of the organization).
- **Data Management & Integration:** Designed and implemented robust data pipelines that aggregated and standardized research data from diverse sources, enabling seamless access for cross-functional teams. This empowered scientists with curated
- **Advanced Analytics Enablement:** Structured complex datasets to be tool-agnostic, facilitating direct integration with AI/ML platforms and analytical tools.

Project Leader – Drug Discovery & Bioinformatics | Apr 2006 – May 2017

- **Leadership in Building High-Performance Teams:** Built and mentored diverse, cross-functional teams (20+ members, including 4 supervisors), in Bioinformatics, Data Curation and Data Science, fostering an inclusive culture of innovation through structured training programs and continuous skill development.
- **Mentoring Team:** Mentored teams in lean/agile practices, reducing annual operating costs by 10% by eliminating redundant workflows.
- **Process Innovation & Strategic Execution:** Pioneered a change-management program that reduced product throughput time by 25%, leveraging PMP and ISO standards to streamline documentation and audits.
- **Led feasibility studies** for new bioinformatics tools, integrating **risk-assessment frameworks** to drive data-driven decision-making.
- **Creation of Database Product:** Lead the **creation of a Proprietary Biomarker and Pathway Database** integrating multiple omics data (genomics, proteomics) to accelerate **target drug discovery for pharmaceutical R&D**.
- **Innovation & Patent:** Secured Patent for the database (Biomarker Identification, Analysis and Visualization. Application No.1448/CHE/2005A), later **commercialized by Sales/Marketing** as a premium offering for global pharma clients.
- **Managed internal/external stakeholders** (Admin, IT, vendors) to align software delivery timelines with business goals, ensuring **100% on-time delivery** of critical projects.
- **Championed lean practices** that removed duplication, improving team efficiency by **15%**

Astra Zeneca (Astra Research Center) | Bangalore

Research Trainee – Medicinal Chemistry | 1997 – 1998

- **Pioneering Therapeutic Solutions:** Designed and synthesized novel **drug analogs** for **anti-malarial and anti-tuberculosis** therapies, contributing to early-stage innovative drug discovery pipelines.
- **Applied cutting-edge purification techniques** (HPLC, column chromatography) to optimize compound yield and purity, enhancing research efficiency.
- **Mastered end-to-end synthetic organic chemistry processes**, from reaction design to synthesis of compounds using state-of-the art techniques like **combinatorial chemistry**.
- **Cheminformatics workflows** leveraged cheminformatics tools like ChemDraw, PyMol to **digitize chemical structure** and store them in database to enable easy search and retrieval.

Education & Certifications

- **MBA (Operations)** | IGNOU
- **M.Sc (Biochemistry)** | Bangalore University
- **Certifications:**
 - **Certified Scrum Product Owner (CSPO)** | Scrum Alliance
 - **LabWare LIMS Admin**
 - **Lean Six Sigma Black Belt**
 - **Elastic Stack** (Udemy, Coursera)

Patents

1. **Proactive Adjustment of Resource Allocation to information technology assets based on Predictive Resource utilization** (US Patent Pending #20240338254 – Oct, 2024).
2. **Generating Data Replication Configs Using AI** (US Patent #11,775,196 – 2023).
3. **Identifying & Remediating system anomalies through machine learning algorithms** (US Patent # 11514347 – 2022)
4. **Transgenic Plants with Enhanced Traits** (US Patent # 11,268,103– 2022).
5. **Transgenic Plants with Enhanced Traits** (Patent Pending # 20240102037 – 2024)
6. **BIOMARKER IDENTIFICATION, ANALYSIS AND VISUALIZATION** (India Patent Office: Application No. 1448/CHE/2005A)

Publications

Genetic and Molecular mechanisms of post-embryonic root radial patterning. Saritha V. Kuriakose, Naveen Silvester Indian Journal of Plant Physiology 2016, 17 November 206, Volume 21, Issue 4, pp 457-476