Nikhil Deepak Mirpuri Dodani

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Statistically trained problem-solver with a passion for transforming data into strategy and bridging the gap between analysis and business action. Looking for an opportunity to apply my technical depth and strategic mindset to help organizations make smarter, faster decisions.

EDUCATION

University of Missouri–St. Louis, *St. Louis , MO*   *August 2025 - December 2026*
Master of Business Administration

Purdue University, *West Lafayette, IN*   *August 2020 - May 2024*
B.S. in Applied Statistics | Minors: Computer Science, Psychology

WORK EXPERIENCE

LoCANS

Data Analyst   *September 2025 - Present*

- Analyzed large, complex datasets (behavioral, clinical, and experimental) using Excel, Python, and statistical methods to identify trends and actionable insights that informed ongoing research and operational decisions.
- Built and evaluated machine learning models to categorize subjects and uncover drivers of behavioral outcomes, improving data-driven decision-making for multi-phase research projects..
- Translated technical findings into clear summaries, dashboards, and presentations used by researchers, clinicians, and project stakeholders to guide planning, resource allocation, and study design.

IDEAS Lab

Machine Learning Research Associate   *September 2024 - July 2025*

- Developed and optimized machine learning models for robotics applications, improving system efficiency by analyzing sensor data and refining real-time decision-making algorithms.
- Led the design and deployment of data pipelines, processing over 500GB of sensor data, contributing to the scaling of robotics systems and improving product development timelines by 30%.
- Applied AI techniques to streamline product testing cycles, reducing development time by 30% and enhancing robotic system accuracy through data-driven model tuning and iterative feedback integration.

KPMG

Intern Information Technology Auditor   *June 2023 - August 2023*

- Led risk assessments and assisted in evaluating IT controls across client systems, identifying inefficiencies and contributing to improved audit compliance and business continuity strategies.
- Conducted financial data reviews and variance analyses across multi-million-dollar accounts, helping uncover reporting inconsistencies and informing key recommendations for process improvements.
- Supported the development of data-driven audit procedures using Excel, SQL, and proprietary tools, streamlining internal processes and reducing manual effort by 25%.

CERTIFICATIONS

- Google Data Analytics Certification (Coursera)   *August, 2025*
- AWS Cloud Solutions Architect (AWS Certified)   *November, 2024*
- Azure Data Engineering Associate (Microsoft Certified)   *September, 2024*

PROJECTS

- **Credit Default Prediction Model** – Built machine learning models to predict borrower default using 100K+ financial records, improving risk-classification accuracy by 25% and identifying key drivers for lending decisions.
- **Portfolio Optimization Tool** – Developed a Python-based simulation engine using Modern Portfolio Theory and Monte Carlo methods to recommend optimal investment strategies and evaluate market scenarios.

SKILLS

- **Technical Skills** - Data Analysis, Business Analytics, Financial Modeling, Machine Learning, Data Visualization, Statistical Modeling, Forecasting & Trend Analysis, Advanced Excel (Pivot Tables, VLOOKUP, Power Query), SQL (Queries, Joins, Optimization), Dashboarding (Tableau/Power BI), Process Improvement, Requirements Gathering
- **Professional Skills** - Project Management, Cross-Functional Collaboration, Business Process Analysis, Operations Strategy, Supply Chain Knowledge, Communication & Presentation, Problem Solving, Decision Support, Documentation & Reporting
- **Programming Languages & Tools** - Python, R, SQL, Java, SAS, HTML/CSS, Django, PyTorch, Pandas, NumPy, Git, PowerPoint, Excel Automation