Rodashi Panta

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SUMMARY

Seeking internships/ co-ops in engineering or technology management field. Available in Spring, Summer, and/ or Fall 2025: Graduating in May 2026.

EDUCATION

Purdue University   **West Lafayette, IN, USA**

Masters in Engineering Management (MEM), Professional Practice in Industrial Engineering | GPA: 3.7/4.0   Jan 2024-Present

Relevant Coursework: Machine Learning, Stochastic Models for Operational Research, Game Theory, Business Analytics, Strategic Management.

Thapathali Institute of Engineering   **Kathmandu, Nepal**

Bachelor of Engineering (BE), Mechanical Engineering | GPA: 3.52/4.0   Jan 2018-June 2022

Relevant Coursework: Finite Element Method, Control Systems, Operational Research and Management Science Mechanical Design and Simulation.

PROFESSIONAL EXPERIENCE

The Data Mine - Purdue University   **West Lafayette, IN**

Technical Program Manager | BAE Systems | Supply Chain & Operations   Aug 2024 – Present

- Led a 15-member cross-functional team to enhance aircraft spare parts supply chain performance by leveraging advanced Exploratory Data Analysis and predictive modeling, improving sales forecast accuracy by 20%.
- Utilized machine learning algorithms and a test-train approach to predict unit sales, gaining 15% improvement in both model accuracy and reliability.
- Collaborated with technical and supply chain teams using Kanban and Jira, enhancing communication flow and boosting project delivery by 10%.

Product Manager | Blue Wave AI Labs | Digital Solutions & Automation   Jan 2024 – April 2024

- Managed a team using Agile methodologies to develop an LLM chatbot to automate nuclear energy proposals, increasing their productivity by 20%
- Leveraged data analytics and machine learning to optimize chatbot algorithms and streamline data processing, improving the performance by 15%.
- Employed risk management strategies, risk registers, and mitigation tactics, to ensure the timely delivery of project milestones with 20% efficiency.

Energy System Research Lab   **Kathmandu, Nepal**

Project Consultant | Regional Cement Factory | Sustainable Infrastructure & Resource Management   Apr 2023 - Jun 2023

- Utilized data analytics and statistical modeling to design a solar power plant, reducing carbon emissions by 30% and improving the energy efficiency.
- Generated comprehensive reports from data analysis, providing insights that led to a 3% reduction in costs and improved operational efficiency.

Optimization Analyst | National Electricity Authority | EV Power & Charging Solutions   Mar 2022 - Dec 2023

- Utilized Python and Google OR-Tools to create an optimized EV charging station placement model, achieving a 3% cost reduction with the model.
- Applied data analytics to develop a dynamic traffic model adjusting traffic density in real-time enhancing efficiency by 15% and reducing wait times.
- Coordinated with urban planners and electrical engineers to integrate charging infrastructure in urban environments improving efficiency by 12%.

Saral Urja   **Kathmandu, Nepal**

Product Design Engineer Intern | Renewable Energy Engineering   Mar 2021 – July 2021

- Design optimized solar panel layouts using AutoCAD and PVSyst for commercial buildings, reducing energy consumption costs by 2.5% annually.
- Designed solutions for solar panel distribution networks and conducted a feasibility study, enhancing access to electricity in rural regions by 40%.

PROJECT EXPERIENCE

Social Innovation Business Development   Aug 2024-Present

- Collaborated with the Bayer Foundation and Dockokids and performed comprehensive business analysis identifying the need for a dashboard and working to build it to improve operational efficiency by 20%.
- Performed exploratory data analysis, and optimized their marketing strategy, improving decision-making by 30% and boosting customer acquisition.

Implementation of Reweighted Models for Robust-Deep-Learning   Jan 2024- April 2024

- Utilized machine learning to improve CNN training with class reweighting, achieving 96% accuracy on imbalanced datasets (200:1) with 25% noise.
- Applied data analytics to enhance VAR foul detection accuracy by 30% on noisy datasets while reducing computational overhead during processing.

Stock Exchange Market Analysis   Jul 2022

- Conducted data analysis on 20 companies from 4 sectors to quantify inter-sector relationships, providing actionable insights for market strategies.
- Forecasted stock prices using historic trading data and the Crystal-Ball predictor, achieving 80% accuracy, with predictive modeling and analysis.

International "Rowboatics" Competition| TechFest, IIT Bombay   Jan 2020

- Designed and developed an RC boat prototype using SolidWorks, securing 1st position in the competition by enhancing their performance by 25%.
- Managed the project's timeline and budget, achieving 100% on-time delivery and successful testing , showcasing strong project management skills.

Skills

Advanced MS Excel: Solver optimization, Linear programming, Regression Analysis, Montecarlo Simulation, Decision Analysis, Risk Analysis, Time Series Forecasting, Pivot Table, Query, Scenario Analysis, Conditional Formatting, VLOOKUP, HLOOKUP, VBA, Data Analysis ToolPak.

Technical: SQL, Python, Crystal Ball, Solidworks, Ansys, AutoCAD, CATIA, PVSyst

Quantitative: Statistical Modelling, Machine Learning, OR-Tools, CPLEX Optimization Studio/Library, MATLAB, Power BI, Tableau, Data Analysis

Competencies: Agile Methodologies, Kanban, Jira, Ms-Project, Project Management, Confluence