

Rodashi Panta

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OBJECTIVE

Graduate student in Engineering Management at Purdue, graduating December 2025. Available for co-ops in engineering & tech during Spring, Summer, and Fall 2025.

EDUCATION

Purdue University

West Lafayette, IN, USA

Masters in Engineering Management (MEM), Industrial Engineering | GPA: 3.7/4.0

Jan 2024-Present

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

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, Applied Thermodynamics, Mechanical Design and Simulation, etc.

PROFESSIONAL EXPERIENCE

The Data Mine - Purdue University

West Lafayette, IN

Technical Program Manager / BAE Systems / Supply Chain & Operations

Aug 2024 – Present

- Enhanced overall supply chain performance utilizing MS Project for effective schedule management, coordinating with a 15-member cross-functional team to develop a predictive sales forecast model, resulting in a 20% improvement in forecast accuracy.
- Improved resource allocation and operational efficiency by applying data analysis techniques and advanced analytics to identify key performance indicators (KPIs) resulting in a more precise alignment of project goals with business objectives, improving efficiency by 20%.
- Collaborated with technical and supply chain teams using Agile methodologies 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 an 8-member team using Agile methodologies and Jira to develop a chatbot that automated nuclear energy proposals, boosting productivity by 20%.
- Used data analytics and machine learning to identify inefficiencies, enabling real-time adjustments improving project performance and coordination by 15%.
- Employed risk management strategies, including risk registers and mitigation tactics, to ensure timely delivery of project milestones.

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 factory's energy efficiency.
- Generated detailed reports based on data analysis, offering key insights to improve operational efficiency and cost reduction by 3%.

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 and enhanced efficiency.
- Integrated data analytics to develop a dynamic traffic model that adjusted traffic density in real-time, boosting efficiency by 15% and reducing wait times.
- Coordinated with urban planners, logistics teams, electrical engineers to integrate charging infrastructure in urban environments improving efficiency by 12%.

Saral Urja

Kathmandu, Nepal

Product Design Engineer Intern / Product Design Engineering

Mar 2021 – July 2021

Saral Urja is a distributed energy services company committed to designing and implementing affordable and sustainable energy solutions that enhance electricity access for rural and urban communities. Through innovation, they strive to significantly impact energy accessibility and sustainability across diverse regions.

- Applied AutoCAD and PVSyst to design optimized solar panel layouts for commercial buildings, reducing energy consumption costs by 2.5% annually.
- Developed design solutions for solar panel distribution networks, 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 to enhance Dockokids' business model, improving their operational efficiency by 20%.
- Developed a dashboard that integrated Dockokids' datasets, facilitating data analysis to improve business decision-making processes by 30%.

Implementation of Reweighted Models for Robust-Deep-Learning

Jan 2024- April 2024

- Achieved 96% accuracy on imbalanced datasets (200:1) with 25% noise by enhancing CNN training through a class and sample reweighting mechanism.
- Improved the accuracy of VAR foul detection by 30% in datasets with 50% noise, while also effectively 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 expertise in predictive modeling and analysis.

Music Genre Detection

May 2021

- Classified raw audio samples into 10 genres using audio features such as MFCCs and Chroma energy, showcasing advanced signal processing techniques.
- Built a machine learning model with proficiency in applying AI models to real-world datasets, using PCA, ANN, and KNN, achieving 90%+ accuracy.

International Rowboatics Competition| TechFest, IIT Bombay

Jan 2020

- Designed and developed an RC boat prototype using SolidWorks, securing 1st place in the competition by optimizing functionality with innovative designs.
- Managed the project's timeline and budget, ensuring on-time delivery and successful testing, using project management skills in a competitive environment.

Access for All: Hackathon| Thapathali Institute of Engineering

June 2018

- Collaborated in a team to design and prototype an extendable prosthetic arm using SolidWorks, improving functionality for differently-abled users by 40%.
- Secured 3rd place out of 50+ teams by creating a cost-effective, functional solution, demonstrating prototyping and mechanical design capabilities.

Skills

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

Quantitative: Statistical Modelling, Monte-Carlo, Machine Learning, Crystal Ball, OR-Tools, CPLEX Optimization Studio/Library, Linear Regression, PCA, ANN, KNN, Power BI, Tableau, Kanban, Data Analysis, Minitab

Others: Agile, Project Management, Problem Solving, Team Collaboration, Microsoft Office, Advance MS Excel