

Venkatesh (Venky) Sharma

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SUMMARY

Experienced Product Owner with strong expertise in product management, stakeholder management, machine learning, data analytics, and automation. Skilled in using experimentation, machine learning, and data modeling to create statistical solutions across various domains. Proven ability to drive data-driven decisions by automating processes, generating insightful visual reports, and optimizing workflows across organizations. Outside of work, I am passionate about sports and enjoy following Manchester United and the Houston Astros.

WORK EXPERIENCE

Product Owner Intern, ENPRO Industries, Houston, Texas

Jun 2024 - Dec 2024

- Led development of Phase 1 for a cost forecasting project utilizing Robotic Process Automation, achieving \$270K in savings for the ENPRO's Global Supply Chain Group.
- Designed and integrated Automation Anywhere connectors for ERP systems (NetSuite, Macola, Oracle, AWS Datahub, and Epicor), along with data cleansing bots, reducing cost consolidation time from 1 month to 4 hours.
- Built Power BI dashboard for tracking KPIs - quarterly financial target, purchase order data, invoice data, and supplier data.
- Tracked development phases (UAT/SAT) using JIRA tickets, ensuring real-time updates, transparency, and streamlined communication for all stakeholders throughout the project lifecycle.
- Drove 10+ program phases by leading weekly meetings and tracking 20+ sub-tasks in Smartsheet, achieving 90% schedule adherence.

Industrial Engineer and Analytics Intern, Garlock, Houston, Texas

Jan 2024 - May 2024

- Leveraged Overall Equipment Effectiveness (OEE) to tackle high production variance, and eliminating bottlenecks, achieving 12% reduction in daily production variance, improving production consistency.
- Increased daily production by 17% through bottleneck and unscheduled downtime issue resolution with the help of process control.
- Engineered a digital process flow using Power Automate and Statistical Process Control (SPC) to track daily production levels.
- Worked closely with shop floor operators to address challenges in material handling and inventory fulfillment. Through value stream mapping (VSM) and Kanban, reduced daily material handling time by 30 minutes, leading to a 4% increase in parts assembly efficiency.

Data Analytics Intern, ASML, San Diego, California

May 2023 - Aug 2023

- Developed an advanced tool for the Proto Integrator team using Spotfire, Python, and Power Automate, optimizing preventive maintenance (PM) operations on proto machines and improving efficiency by 3-fold.
- Partnered with Proto Integrators to streamline the PM process, eliminating bottlenecks and achieving an 80% increase in on-time cyclic PM task completion for critical proto machines. Optimized inventory management for 100K+ SKUs required in PM tasks.
- Automated work utilization reporting for the Design and Engineering team, enhancing weekly workload distribution and improving team efficiency by 15% in optimized resource allocation across projects.

Teaching Assistant, Bauer College of Business, University of Houston, Texas

Aug 2022 - Dec 2023

- Assisted in delivering a Business Analytics course, focusing on statistical tests and design of experiments for applications in domains like manufacturing, supply chain and marketing.

Project Associate, Robert Bosch Centre for Data Science and AI, Chennai, India

Jan 2021 - Jul 2022

- Directed a 2-member team from IIT Madras to design a Classification and Regression Tree - Association Rule Mining - based knowledge graph. Collaborated with cross-functional teams throughout the product development, improving data anomaly detection rate by 95%.
- Replaced the month-end data reconciliation process with K-Graph Graphical User Interface (GUI) allowing teams to investigate the unusual transactions by isolating the anomaly in data.
- Devised contextual bandit based product recommendation algorithm to target selected audience using product-customer probability distribution, increasing 15% click-through rate, resulting in a 2.7% sales increase.

SKILLS

Program Management: MS Project, Think Cell, Jira, Trello, Visio, Smartsheet | **Programming Languages:** Python, C/C++, R, SQL and Basic HTML/CSS | **Data Visualisation:** Power BI, Tableau, Spotfire, Matplotlib, Seaborn | **Data Analysis:** Stata, Minitab, Advance Excel, VBA | **Machine Learning:** Numpy, Pandas, Keras, PyTorch, TensorFlow, Forecasting, Clustering, Scikit-Learn, Deep Learning | **Robotic Process Automation:** Automation Anywhere, Power Platform | **Industrial Systems:** Netsuite, Oracle, Epicor | **Modelling and Simulations:** MATLAB, AutoCAD, Solidworks, Simio

EDUCATION

University of Houston, Houston, Texas

Master of Science in Industrial Engineering GPA: 3.63/4.0

Aug 2022 - May 2024

Visvesvarya Technological University, Belgavi, India

Bachelor of Technology in Mechanical Engineering GPA: 3.51/4.0

Aug 2016 - Aug 2020

ACHIEVEMENTS

- Outstanding AI Prototype Award - EnPro Industries
- Best Outgoing Student Award - Undergraduate University - Selected among 82 students by the department faculty.
- Received merit-based academic scholarship by the Cullen College of Engineering - University of Houston.
- Winners - City Soccer Championship (best among 20 teams) representing hometown. Played in Centre-Back position.

PUBLICATION

- Relationship between mobility and road traffic injuries during COVID-19 pandemic – the role of attendant factors. PLOS One, 2022