

# Sushin Bandha

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## Summary

Purdue AI student specializing in user-centric products at the intersection of machine learning and business strategy. A proven leader who directed a 25-member team to enhance operational efficiency with Python and Salesforce, now seeking a Product Management, AI, or IT internship to build and launch innovative, AI-powered solutions.

## Education

### Purdue University - West Lafayette, IN

Aug 2023 - May 2027

Bachelor of Science, Artificial Intelligence

- **GPA:** 2.94

- **Coursework:** Computer Architecture, OOP in Java, Programming in C, Data Structures & Algorithms, Systems Programming, Data Mining & Machine Learning

## Experience

### Purdue University Police Department

PSSP Student Patroller

West Lafayette, IN · Sep 2025 - Present

- Assess and mitigate environmental risks by identifying unauthorized access points and safety hazards, using systematic checklists and Excel logs to document findings, which improves campus safety compliance
- Provide emergency response and crowd control during university events, coordinating with full-time officers and using real-time communication tools, which reduces incident response time and maintains safe environments for attendees
- Conduct security operations and facility inspections across campus, performing interior sweeps and recording observations in Git-tracked reports, which ensures the physical integrity of academic and administrative assets

### PSEG

Product Intern

Newark, NJ · Jun 2025 - Aug 2025

- Acted as a product owner for Identity & Access Management (IAM), partnering with stakeholders to prioritize a backlog of 50+ bug fixes and enhancements that improved system usability.
- Guaranteed a 99% defect-free launch by executing 300+ User Acceptance Testing (UAT) and SIT cases to validate product quality and end-to-end user workflows.
- Developed a business case for a new IAM scalability solution, conducting market analysis and user research with Excel and PowerPoint, which secured executive approval and a roadmap for future growth

Product Intern

Newark, NJ · Jun 2024 - Aug 2024

- Pioneered product initiative by building and presenting five Proof of Concept tools, securing executive approval for full-scale development.
- Led cross-functional team of 25 interns to define and launch company-wide onboarding site, accelerating new hire productivity.
- Owned end-to-end development of critical automation tool, transforming multi-day manual process into near-instant execution.

## Projects

### Wine Varietals Yield Forecasting Project

Aug 2024 - Dec 2024

BASF x The Data Mine

- Delivered a machine learning solution that provided a 92% accurate forecast of wine sales, enabling data-driven inventory and marketing decisions for the client (BASF).
- Translated complex business requirements into technical specifications for a time-series forecasting model, aligning the project scope with stakeholder goals.
- Improved the efficiency of the existing analytical system by 30% by debugging and refactoring legacy code, directly enhancing the reliability of the forecasting tool.
- Designed and deployed an automated MLOps pipeline that cut model update time from 2-3 days to ~1-2 hours, ensuring the business always had access to the most current predictions.

### Personal Website | Website

2024 - Present

- Engineered a full-stack AI portfolio platform using Next.js 15, TypeScript, and PostgreSQL, featuring a conversational RAG chatbot with semantic search over embedded resume and project data
- Configured production deployment on Vercel with automated CI/CD, environment variable management, and secure API key handling
- Designed serverless contact form system with PostgreSQL persistence, IP geolocation tracking, and transactional email delivery via Resend API, capturing visitor engagement metrics

## Skills

- **Technical Skills:** Python, Machine Learning, SQL, Java, C++, PyTorch, Deep Learning, JavaScript, Natural Language Processing, C/C++, Machine learning, Linux, TensorFlow, Generative AI, AWS