

Vibhasri Kandukuri

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EDUCATION

Purdue University

B.S. in Computer Science, Machine Learning Concentration, Minor in Finance

West Lafayette, IN
Aug. 2023 – Dec. 2026

- Certificate in Applications of Data Science
- Notable Coursework: Discrete Math, Linear Algebra, Analysis of Algorithms, Berkeley Artificial Intelligence Course

EXPERIENCE

• Undergraduate TA Scrum Master

Aug 2025 - Present

Lincoln Financial Group, The Data Mine, Purdue University

- Led an 11-member team to build logistic regression and decision tree models predicting annuity outcomes, improving interpretability of risk factors by 25%
- Oversaw biweekly sprints, deliverables, and stakeholder reports, ensuring 100% on-time delivery through Agile practices

• Team Lead and Software Engineering Researcher

Aug 2024 - May 2025

AgRPA, The Data Mine, Purdue University

- Engineered an autonomous drone mapping and targeted pesticide-spraying system that reduced chemical use by 60% and operational costs by 30–70%.
- Developed a Python tool to convert shapefiles into flight waypoints for QGroundControl, improving battery utilization by 20% and image resolution through optimized coverage.
- Managed all cross-team and stakeholder communication, coordinating integration across AI, software, and mechanical subsystems.

• Data Science Intern

May 2024 - Aug 2024

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- Analyzed over 10,000 patient records using Pandas and NumPy to identify high-risk factors for diabetes onset.

• Machine Learning and Data Science Researcher

Aug 2023 - May 2024

Caterpillar, The Data Mine, Purdue University

- Built a Flutter mobile app for EV fleet managers to monitor and receive real-time notifications of battery health.
- Applied ARIMA time series forecasting to predict state-of-charge trends, reducing charging downtime by 15% and improving fleet utilization.
- Cleaned and structured over 50,000 telemetry data points to enhance prediction model reliability.

PROJECTS

• Solar Energy Forecasting

Apr 2025

Forecasted energy output of solar panels based on weather patterns from NOAA/USGS datasets.

• Shell Interpreter

Mar 2025

Built a C shell supporting subshell command evaluation, wildcard expansion, redirection, and piping

• Simple C Compiler

Mar 2024

Developed a Simple C compiler using Lex and Yacc to parse a reduced C language and generate x86-64 assembly code

• Personal Malloc in C

Jan 2025

Built a custom memory allocator in C leveraging freelists and system calls to manage dynamic memory safely and efficiently.

• Android SQLite Java Bookstore

Apr 2023

Developed a mobile app in Android Studio with SQLite backend to manage book inventory, customer orders, and transaction history for 100+ records, supporting offline data persistence and search queries.

• Java Marketplace

Nov 2023

Built a multithreaded Java client-server marketplace handling 20+ concurrent client sessions and 200+ simulated transactions using socket-based networking and persistent file storage

SKILLS

Languages: Python (Pandas, NumPy, Skicit-Learn), Java, C, R, Bash, Dart, HTML/CSS, React, SQLite, x86-64

Tools: Git, GitHub, Agile, Kanban, QGroundControl, Jupyter, LaTeX, Notion, Microsoft Suite

EXTRACURRICULARS

Treasurer

West Lafayette, IN

Google Developer Group (GDG), Purdue University

Dec 2024 - Present

- Managed funding, logistics, and workshops, including leading a Gemini API session that taught 100+ students to build AI/ML applications