

Vibhasri Kandukuri

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EDUCATION

Purdue University <i>B.S. in Computer Science, Machine Learning Concentration, Minor in Finance</i> <ul style="list-style-type: none">• Certificate in Applications of Data Science• Notable Coursework: Discrete Math, Linear Algebra, Analysis of Algorithms, Berkeley Artificial Intelligence Course	West Lafayette, IN <i>Aug. 2023 – Dec. 2026</i>
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EXPERIENCE

Undergraduate TA Scrum Master <i>Lincoln Financial Group, The Data Mine, Purdue University</i> <ul style="list-style-type: none">◦ 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	<i>Aug 2025 - Dec 2025</i>
Team Lead and Software Engineering Researcher <i>AgRPA, The Data Mine, Purdue University</i> <ul style="list-style-type: none">◦ 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.	<i>Aug 2024 - May 2025</i>
Data Science Intern <i>Vizzhy</i> <ul style="list-style-type: none">◦ Analyzed over 10,000 patient records using Pandas and NumPy to identify high-risk factors for diabetes onset.	<i>May 2024 - Aug 2024</i>
Machine Learning and Data Science Researcher <i>Caterpillar, The Data Mine, Purdue University</i> <ul style="list-style-type: none">◦ 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.	<i>Aug 2023 - May 2024</i>

PROJECTS

Solar Energy Forecasting Forecasted energy output of solar panels based on weather patterns from NOAA/USGS datasets.	<i>Apr 2025</i>
Shell Interpreter Built a C shell supporting subshell command evaluation, wildcard expansion, redirection, and piping	<i>Nov 2024</i>
Simple C Compiler Developed a Simple C compiler using Lex and Yacc to parse a reduced C language and generate x86-64 assembly code	<i>Mar 2024</i>
Personal Malloc in C Built a custom memory allocator in C leveraging freelists and system calls to manage dynamic memory safely and efficiently.	<i>Jan 2025</i>
Android SQLite Java Bookstore 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.	<i>Apr 2023</i>
Java Marketplace Built a multithreaded Java client-server marketplace handling 20+ concurrent client sessions and 200+ simulated transactions using socket-based networking and persistent file storage	<i>Nov 2023</i>

SKILLS

Languages/Frameworks: Python (Pandas, NumPy, Scikit-Learn), MCP, Java, C, R, Bash, Dart, HTML/CSS, React, SQLite, x86-64, QGroundControl
Tools: Git Version control, Agile, Kanban, Jupyter, LaTeX, Notion, Microsoft Suite

EXTRACURRICULARS

Treasurer <i>Google Developer Group (GDG), Purdue University</i> <ul style="list-style-type: none">• Managed funding, logistics, and workshops, including leading a Gemini API session that taught 100+ students to build AI/ML applications	West Lafayette, IN <i>Dec 2024 - Dec 2026</i>
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