

# Vibhasri Kandukuri

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## EDUCATION

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- Purdue University** West Lafayette, IN  
*B.S. in Computer Science, Machine Learning Concentration, Minor in Finance* *Aug. 2023 – Dec. 2026*

## EXPERIENCE

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- Team Lead and Software Engineering Researcher** West Lafayette, IN  
*AgRPA, The Data Mine, Purdue University* *Aug 2024 - May 2025*
  - Optimized drone mapping and targeted fertilizer application, to save 30-70% resources, achieving faster, cost-effective, and environmentally friendly results.
  - Developed a program to dynamically generate flight path waypoints from shapefiles using Python on QGroundControl maximizing drone battery life and image resolution for peak efficiency
  - Coordinated communication between my sub-team and other teams, as Team Lead ensuring smooth collaboration and project alignment
- Data Science Intern** Remote  
*Vizzhy* *May 2024 - Aug 2024*
  - Analyzed patient data using Python Pandas and Numpy and used data visualization techniques to observe important patterns correlating different factors with diabetes as well as other health conditions to help prevent such ailments through Vizzhy care plans
- Machine Learning and Data Science Researcher** West Lafayette, IN  
*Caterpillar, The Data Mine, Purdue University* *Aug 2023 - May 2024*
  - Caterpillar EV Charging Operations Project in an agile project management operation to build an app to help CAT machine operators track machine status
  - Developed a Flutter application using Darts that assists CAT EV fleet managers regulate battery status through push notifications. The development process included front-end and connecting backend data analytics to create an intuitive user interface
  - Using machine learning models, we predicted state of charge values so that machine operators can manage their fleet efficiently and book their chargers on our app in advance
- Project Manager and Web Developer Intern** Remote  
*Hampshire Academia* *Jun 2022 - Nov 2022*
  - Led a team of 5 interns using the agile project management method in developing responsive websites compatible with mobile and desktop devices in HTML5 and CSS3
  - Communicated the project status with all stakeholders as a scrum master, translating technical progress into actionable insights and aligning expectations to keep the project on track

## PROJECTS

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Shell Interpreter – Mar 2025	Android SQLite Java Bookstore – Apr 2023
Simple C Compiler – Nov 2024	Java Marketplace – Nov 2023
Personal Malloc in C – Jan 2025	

## SKILLS

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**Languages:** Python (Pandas, NumPy), Java, C, R, Bash, Darts, HTML/CSS, SQLite, x86-64  
**Tools:** GitHub, Agile, QGroundControl, Jupyter, LaTeX, Notion, Microsoft Suite