Phani Bharadwaj Jarugumilli

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EDUCATION

University of Cincinnati   **Expected Graduation: May 2027**
Bachelor of Science in Computer Science   **GPA: 3.81 (Dean's List)**

- **University Honors Program Scholar**
- **Relevant Coursework:** Data Structures and Algorithms, Gen AI, Deep Learning, Computer Systems, Engineering and Design Thinking, Linear Algebra, Calculus, Python Programming, Discrete Structures, Probability and Statistics

WORK EXPERIENCE

BMW Manufacturing Co., LLC || (Python, SQL, Oracle APEX, Power BI, Power Apps, JavaScript, Excel)   **Jan 2025 - May 2025**
Software and Data Engineering Co-op

- Engineered Python-SQL pipelines to process 60,000+ downtime alarms, reducing false alerts by 38% and delivering actionable insights for Assembly operations
- Automated email classification for 1,000+ messages using NLP, cutting manual review by 95% and improving new vehicle launch readiness
- Built an APEX application with SQL backend to track overtime for 300+ associates, enabling cost visibility and reducing cost center expenses by 17%
- Fine-tuned NVILA video models with wearable camera data to automate manual inspections, boosting inspection speed and consistency across assembly operations

Live Well Collaborative || (Python, Elasticsearch, RAG, Miro, Figma)   **May 2024 - Dec 2024**
AI/ML Research Co-op

- Built an Elasticsearch-powered RAG chatbot for Procter & Gamble that improved operational workflow efficiency by 30%
- Benchmarked and user-tested 85 AI tools, successfully implementing 5 solutions that optimized healthcare workflows for Cincinnati Children's Hospital and UC Health
- Redesigned Council on Aging PASSPORT program enrollment process, reducing service delivery delays by 20%

University of Cincinnati || (Slate, Excel, Outlook, Teams)   **Jan 2023 - Dec 2024**
Student Orientation Leader

- Led orientation for 1,000+ incoming students, driving operational improvements that boosted admittance efficiency by 30%
- Supported 200+ students with financial aid concerns, streamlining front-desk operations and ensuring timely redirection to financial advisors for faster resolution

PROJECTS

Q-Bot: AI-Powered Quality Bot || (Python, JavaScript, RAG, SQL, OpenAI)
Hack-a-Prompt, BMW

- Created an AI chatbot leveraging RAG for automated manufacturing defect analysis, integrating a live Cloud Data Hub connection to eliminate manual uploads and increase efficiency by 93%, reducing review time from 30 minutes to 2 minutes for 300+ Assembly users

FinVest: Budget Smart & Invest Sharp || (ASP.NET Core, C#, SQL Server, Plaid API & Alpha Vantage API, Ngrok, JS)
Future of Data Hackathon, Best Finance Software Award 2024

- Developed a financial platform integrating Plaid API for budget tracking, Alpha Vantage API for real-time data on 10,000+ stocks, and interactive visualizations, featuring a VR-based trading simulation tested by 100+ users during the hackathon

NeuroPlay: AI-Powered Reinforcement Learning Agent || (Python, RL, Neural Networks & Deep Learning Libraries)

- Engineered an AI agent for Pong using reinforcement learning and Adam Optimizer that achieved 95%-win rate after 1,000 iterations. Documented insights on agile prompt engineering and AI-human interaction to support reproducibility

SKILLS

- **AI & Machine Learning:** Generative AI, Deep Learning, Reinforcement Learning, NLP, RAG
- **Cloud & Data Processing:** AWS, Google Cloud, Elasticsearch, Oracle APEX, OpenAI API
- **Programming & Web Dev:** Python, C, C++, JavaScript, SQL, MATLAB, HTML, CSS, React, Node.js, Bootstrap, Flask
- **Frameworks, Tools & Software:** Pandas, PyTorch, NumPy, Git, R, LabVIEW, SQL Server, MongoDB, MySQL, Figma

AVAILABLE FOR CO-OP: FALL 2025