

Aadarsha Gopala Reddy

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SUMMARY

Results-driven Computer Science Master's student with hands-on experience in machine learning, full-stack development, and data analysis, seeking to apply technical and analytical skills, including AI/ML and automation, to solve complex business challenges, drive data-driven strategic decisions, and contribute to corporate development initiatives.

SKILLS

Programming Languages: Java, C++, Python, R, JavaScript/TypeScript, PHP, C#, SQL, Rust.
Frameworks & Libraries: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Node.js, Vue.js, React, Socket.IO, Gemini/OpenAI API.
Tools & Technologies: Git, Tableau, Power BI, Advanced Excel, MySQL, AWS, MongoDB, MySQL.
Core Competencies: Automation, Analytical Skills, Problem Solving, Critical Thinking, Communication, Team Collaboration, Leadership, Adaptability, Project Management.
Languages: Proficient in English, Kannada, Telugu; Fundamental in Hindi.

EDUCATION

Washington University in St. Louis | St. Louis, Missouri, USA Expected Graduation: May 2026
MS in Computer Science GPA: 3.2/4.0
Coursework: Artificial Intelligence for Health, Computational Biology, Deep Learning, and Software Development.
Ohio Wesleyan University | Delaware, Ohio, USA May 2023
BA in Computer Science and Data Analytics; Economics Minor GPA: 3.42/4.0
Honors: Golden Bishop Award, Mortar Board, Florence Leas Prize, Spring 2022 and Spring 2023 Dean's List.
Coursework: Computer Architecture, Theory of Computation, Algorithms, Big Data, Data Visualization, Data Analytics, Databases, Machine Learning, Artificial Intelligence, Applied Statistics.

EXPERIENCE

Washington University in St. Louis | St. Louis, Missouri, USA August 2024 - Present
Graduate Assistant with the Taylor Family Center for Student Success

- Leading data-driven program planning initiatives for first-generation/low-income student success, resulting in 12% increase in student engagement by tracking participation in workshops and events and improving outreach.
- Supporting alumni engagement through newsletter development, database management, and other event logistics.

Lab714 | Boca Raton, Florida, USA June 2023 - May 2024
Data Analyst Intern

- Achieved a 20% reduction in operating costs for clients through data-driven insights derived from analyzing IoT device data, leading to optimized resource allocation and process improvements.
- Engineered a software using React and AWS to extract, organize, and analyze data from IoT devices.

PROJECTS

Datacenter Cooling Optimization using Deep Reinforcement Learning August 2024 - December 2024

- Implemented multiple DRL algorithms (DDQN, PPO, SAC) integrated with EnergyPlus simulations for datacenter cooling optimization, achieving up to 35.8% improvement over baseline controllers.
- Developed custom environment using Sinergym that simulates a small datacenter with stochastic weather conditions, focusing on optimizing energy efficiency in small to mid-sized facilities.

Multimodal Prediction of Alzheimer's Disease August 2024 - December 2024

- Created a multimodal method for early Alzheimer's detection using OASIS-1, merging imaging and clinical data with deep learning and ML.
- Integrated deep learning for imaging and ML for clinical data, boosting accuracy via a combined classifier.

AI Agents for Connect 4 and Lost Cities Games May 2022 - December 2022

- Implemented alpha-beta pruning with iterative deepening in Connect 4, and a custom evaluation function in Lost Cities.
- Conducted simulations, achieving 100% Connect 4 wins and 73% Lost Cities wins against baseline AI.