

Aaryan D. Wadhwanı

+1 (773) 639-8268 | wadhwanı.aaryand@gmail.com | linkedin.com/in/aaryan-wadhwanı | github.com/aaryanwadhwanı

EDUCATION

Purdue University (West Lafayette, IN) GPA: 3.93/4.00 Dean's List B.S. Computer Science & B.S. Artificial Intelligence Minor: Mathematics Certificate: Applications in Data Science	Aug 2023 - May 2027
EXPERIENCE	

Undergraduate Data Scientist <i>Microsoft</i>	Aug 2025 - May 2026
<ul style="list-style-type: none">Prototyped AI-powered data science pipelines to transform publicly available Minecraft creator datasets into insights on content trends, engagement drivers, and community influence.Engineered lightweight ML/NLP tools to help new creators generate and classify content ideas, lowering entry barriers and enabling rapid experimentation in the Minecraft creator ecosystem.	<i>West Lafayette, IN</i>
Project Manager - Manglaria <i>World Wildlife Fund</i>	Aug 2025 - May 2026
<ul style="list-style-type: none">Mentored 10+ students applying Python, ML, and Google Cloud tools to analyze data from mangrove ecosystems.Coordinated bi-weekly plans using agile practices to define deliverables, track progress, and ensure execution.	<i>West Lafayette, IN</i>
Undergraduate Teaching Assistant <i>Purdue University - CS 251 (DSA), CS 253 (DSA for DS/AI Majors)</i>	Aug 2025 - Dec 2025
<ul style="list-style-type: none">Authored project specifications, grading rubrics, and instructional resources to improve coursework.Facilitated 800+ students in mastering core data structures (trees, graphs, heaps, hashmaps) through PSO sessions, office hours, and hands-on guidance, along with grading over 200+ assignments all on a weekly basis.	<i>West Lafayette, IN</i>
Software Engineering Intern <i>Uniloy Inc.</i>	May 2025 - Aug 2025
<ul style="list-style-type: none">Developed an internal issue-tracking journal and incorporated a fully local RAG pipeline (FAISS, MiniLM, Ollama) to accelerate troubleshooting and reduce repeat queries.Automated global translation setup with Python scripts, cutting localization effort by over 65%.Implemented a lightweight server to enable live communication (~ 0.1s) between incompatible control systems.	<i>Tecumseh, MI</i>
Undergraduate Research Assistant - AVL Fast-Hash <i>Purdue University</i>	Oct 2024 - May 2025
<ul style="list-style-type: none">Optimized a cache-aware AVL tree achieving 1.3×–2.1× speedups and memory usage over standard C++ implementations on benchmarks with over 500 000 keys using modern computer architecture.Created a Google Benchmark micro-suite to compare against Java HashMap, V8 Dictionary, and others.Integrated AVL-based buckets into hash tables (AVL Fast-Hash) guaranteeing worst case $O(\log n)$ operations.	<i>West Lafayette, IN</i>
Data Engineering Intern <i>LTIMindtree Ltd.</i>	May 2024 - Aug 2024
<ul style="list-style-type: none">Deployed Redis-backed caching layer for SharePoint search, cutting median latency 28% for ~ 2k daily users.Introduced CI workflows with GitHub Actions, cutting post-merge defects by 35% and accelerating deployment.	<i>Mumbai, India</i>
Undergraduate Data Scientist <i>Caterpillar Inc.</i>	Aug 2023 - May 2024
<ul style="list-style-type: none">Scraped, cleaned, and joined over 60 years of global supply-chain data (2,000,000x40 entries) on 7+ key indicators.Trained PyCaret + Prophet pipeline approximating project related risks based on this 60-year series.Delivered an interactive PowerBI dashboard delivering live data, and real-time feedback about supply chain issues.	<i>West Lafayette, IN</i>

PROJECTS

StockSage AI Python, TensorFlow/Keras, scikit-learn, Prophet, NLTK/TextBlob	Mar 2025 - Jul 2025
<ul style="list-style-type: none">Built an ensemble forecasting pipeline (LSTM, XGBoost, ARIMA) with 10+ indicators (e.g. RSI, MACD, Bollinger Bands), achieving 89.5% accuracy, and 5% above the best single model.Incorporated live sentiment scoring (NLTK/TextBlob) using NewsAPI, boosting model performance by 30%.	
Systems Projects C, C++, Bash, Flex, Bison	Sept 2024 - Apr 2025
<ul style="list-style-type: none">POSIX Shell: implemented job control, pipelines, background execution, subshells, wildcard expansion, tab completion, and command history; passed 78 unit tests with 100 % success.Simple-C Compiler: parses C code, and generates optimized x86-64 Assembly while achieving times 5-15% faster than GCC and Clang.	

TECHNICAL SKILLS

Languages: C++ · C · Python · Java · JavaScript/TypeScript · Bash · x86-64 Assembly
Frameworks & Libraries: React · Node.js/Express · FastAPI · Streamlit · PyTorch · scikit-learn · PyCaret · Prophet
Data & ML Tools: Pandas · XGBoost · Tableau · SQL · MongoDB · Redis