ARYAMAN SHARMA

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EDUCATION

Purdue University - West Lafayette **August 2023 - May 2027**
Bachelor of Science in Computer Science, Concentration in Machine Learning
Minor in Psychology
Relevant Coursework:
Object Oriented Programming, Data Structures and Algorithms, Linear Algebra, Computer Architecture, Operating Systems, Machine Learning, Programming in C.

SKILLS & INTERESTS

Languages: Java, Python, C, C++, MySQL, JavaScript, HTML, CSS, R, Bash, Linux, MongoDB, C#, Node.js
Frameworks: Django, React Native, ReactJS, TensorFlow, PyTorch, LangChain, Pipelines, Ollama, Relational Database
Tools: JIRA, CI/CD, Agile, Google Cloud Platform
Libraries: Pandas, NumPy, Matplotlib, Scikit-Learn, Seaborn, OpenCV, Xcode

PROFESSIONAL EXPERIENCE

Onix **West Lafayette, IN, USA**
Machine Learning Engineer *June 2025 - July 2025*

- Built a large-scale **agentic GraphRAG system** at Onix (Google Cloud Partner) for structured reasoning over enterprise client metadata using on-prem Llama-3.3-70B orchestrated by Gemini.
- Automated metadata ingestion as secure **Docker microservices** on Vertex AI Workbench, cutting manual rewrites and intervention by ~29%, saving more than 100 manual hours per week
- Designed **enterprise knowledge graphs** in Neo4j with business semantic layers; exposed Natural Language to SQL via LangChain REST APIs to BigQuery and authored internal docs.
- Pitched the agentic LLM solution to **three enterprise clients**, showcasing analytics and semantic searching capabilities.

Bayer **West Lafayette, IN, USA**
Lead Developer *August 2023 - March 2024*

- Constructed a **predictive model** for maize farming, forecasting yield for cross and hybrid seeds over the next 4 years.
- Collaborated with a cross-functional team using JIRA and Agile to improve efficiency, observability, and reliability of predictive models, driving measurable process improvements through biweekly stakeholder check-ins.
- Engineered explainable features and triaged algorithmic improvements by implementing **regression techniques** (Lasso and Ridge)and **classification algorithms** (SVM and Naive Bayes), achieving over 20% optimization in predicting yield.
- Leveraged Python to **analyze and visualize data**, integrating predictive insights into production-ready tools for real-time agricultural decision-making.

CS 19300, Purdue University **West Lafayette, IN, USA**
Undergraduate Teaching Assistant *August 2024 - December 2024*

- Collaborated with faculty to develop, debug, and graded 16 weeks of course content for a core Computer Science course.
- Facilitated academic guidance by mentoring students, evaluating assignments, and resolving technical issues related to course tools, ensuring smooth operations and consistent grading for more than 1000 students.

PROJECTS & OUTSIDE EXPERIENCE

Mansik Ashriya - Psychological Scorer **Uttar Pradesh, India**
Project Head/Designer *May 2023 - August 2023*

- Independently designed and built a **Python-based AI/ML platform** with a user-first design approach to profile emotional patterns across 160+ respondents.
- Engineered and programmed hybrid models like **Linear Regression and Support Vector Machine**, tracking metrics progress to accomplish an accuracy rate of 80.1%.
- Authored and published a detailed **research paper** showcasing methodology and results of the platform.
- Won the National AI competition, surpassing 60,000+ participants in a prestigious event conducted by AI School of India.

Alignify - ATS Resume Optimization Tool **West Lafayette, IN**
Developer *January 2025 - May 2025*

- Architected and deployed a production-ready full-stack ATS optimizer with React front end and Python back end, scaling to process 1,000+ resumes and job descriptions while computing keyword overlap and alignment scores.
- Integrated **OpenAI API** for LLM-driven reasoning to surface missing skills and generate targeted resume edits, boosting ATS alignment and application targeting.