Aryan Jain

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EDUCATION

MS Data Science   **Sept 2023 – June 2025**
Drexel University | Philadelphia, PA   GPA: 3.9
BS Computer Science with Business Minor   **July 2019 – May 2023**
NMIMS University | Mumbai, India

TECHNICAL SKILLS

Programming: Python, R, SQL, MATLAB, JavaScript, C/C++, HTML, CSS
ML and AI: Scikit-learn, TensorFlow, PyTorch, XGBoost, LightGBM, OpenCV, SpaCy, BERT, Langchain, Time Series
Cloud and DevOps: AWS (S3, RDS, EC2), Azure, Databricks, PySpark, MySQL, Docker, MLflow, CI/CD Pipelines
Visualization and APIs: Tableau, Power BI, Plotly, Dash, Matplotlib, Seaborn, Streamlit, Flask, FastAPI, RESTful APIs

WORK EXPERIENCE

Data Science Intern | MitraQSR | Dallas, TX   **Sept 2024 – Dec 2024**

- Extracted P&L data for 178 stores from R365 and built dashboards to compare revenue, costs, and EBITDA across stores
- Built a RAG tool with FAISS + LLM API to answer queries like Which Region X store had highest revenue in Period Y?
- Diagnosed over $12K+ EBITDA gaps caused by maintenance and overtime issues, enhancing executive decision-making
- **Skills:** Data extraction, Retrieval-Augmented Generation, ETL Pipelines, FAISS, Dashboards, Business Analytics

Data Analyst Intern | Barrier Breakers Inc. | Princeton, NJ   **June 2024 – Sept 2024**

- Migrated 1000+ student records from Trello, Evernote, and Zoho to Monday.com with 99% data accuracy
- Developed Python-based automation scripts to trigger workflows from form submissions, reducing manual tasks by 48%
- **Skills:** Data migration, Process automation, CRM Systems, Python scripting, GraphQL

Data Science Intern | Celebal Technologies | India   **Jan 2021 – Sept 2022**

- Analyzed prediction gaps in revenue and headcount models for 20M+ US/Canada business records; developed industry-specific XGBoost solutions to improve accuracy in weak-performing sectors
- Presented EDA and modeling insights to the client, highlighting where the model's performance dropped across industries
- Spearheaded development and deployment of forecasting APIs using SARIMA and Prophet on Azure for BI dashboards
- **Skills:** XGBoost, EDA, Forecasting APIs, SARIMA, Prophet, Azure, Business Intelligence

PROJECTS

LLM-Powered Payroll Migration Tool | Freelance   **July 2025**

- Parsed 1000+ payroll PDFs into structured JSON using Gemini LLM; saved 10+ weeks of manual data entry
- Built Playwright bot to automate payroll uploads to Accountant World's non-API portal across 85+ clients
- Saved $20K+ in labor costs; generated $2K+ in revenue via tool reuse for new client payroll migrations
- **Skills:** LLMs, Prompt Engineering, Playwright, Automation, PDF Parsing, RPA, ETL Pipelines, Gemini API

CW-RIS: Child Wind Risk Intelligence System | United Nations Hackathon   **June 2025**

- Built an Streamlit application overlaying ERA5 wind data with child population exposure to identify high-risk zones
- Conducted zonal analysis using raster-vector geospatial data to compute risk indexes for humanitarian insights
- **Skills:** Geospatial analysis, Raster data, Streamlit, Risk modeling, ERA5, Humanitarian tech

Comcast AI Challenge Winner | Philly Codefest 2025   **Mar 2025**

- Produced generative AI-based animated video using META AI and Runway ML for realistic character and scene creation
- Integrated GPT-4 and ElevenLabs for script generation and voice synthesis, creating expressive and human-like dialogues
- **Skills:** Generative AI, GPT-4, ElevenLabs, Animation, Meta AI, Multi-modal models

High-Speed Inference with Triton and PyTorch | Drexel University   **Jan 2025 – June 2025**

- Deployed ResNet-based classifier on NVIDIA Triton Inference Server to batch infer 10,000+ image in under 7 seconds
- Optimized PyTorch training pipeline using CUDA kernels, cutting training time by 32% on A100 GPUs
- **Skills:** NVIDIA Triton, PyTorch, CUDA, ResNet, High-performance computing, Model deployment

CERTIFICATIONS

Azure Data Scientist Associate | Microsoft   **May 2022**
Azure AI Engineer Associate | Microsoft   **Mar 2022**