Aryan Jain

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EDUCATION

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

WORK EXPERIENCE

Data Science Intern | MitraQSR | Dallas, TX   **Sept 2024 – Dec 2024**
- Developed time series models for 178 stores to forecast revenue and expenses, improving forecast accuracy by 10%
- Built a RAG pipeline (FAISS + Gemini Pro) so decision-makers could query financial data and gain insights
- Designed a Dash dashboard on Azure App Service to track 30+ financial KPIs, cutting reporting time by 40%

Data Analyst Intern | Barrier Breakers Inc. | Princeton, NJ   **June 2024 – Sept 2024**
- Led the migration from Trello, Evernote, and Zoho CRM to Monday.com via API integrations, ensuring 99% data accuracy
- Developed Python scripts to automate data transfer using APIs, reducing manual work by 80%

Data Scientist, Junior Associate | Celebal Technologies | India   **Jan 2021 – Sept 2022**
- Led a three-member team to develop a Profit and Loss Dashboard using Tableau, integrating FastAPI for backend services and PostgreSQL for data storage, reducing financial analysis time by 30%
- Built forecasting models (ARIMA, LSTM) for revenue and expenses and deployed via Azure Machine Learning and Kubernetes, achieving 5% MAPE and enhancing financial planning accuracy
- Developed a regression model using XGBoost and CatBoost to estimate employee count and revenue, reducing RMSE by 18% with SHAP for interpretability and MLflow for tracking

PROJECTS

CW-RIS: Child Wind Risk Intelligence System | UN Tech Over Hackathon   **June 2025**
- Built Streamlit app that overlays ERA5 wind data with child population exposure to map high-risk zones
- Computed zonal statistics and risk scores using raster and vector geospatial data for humanitarian use

Explainable AI for Image Classification | Drexel University   **May 2025**
- Trained ResNet-18 classifier to detect real vs diffusion-generated cat images with 91% accuracy
- Applied Grad-CAM and a Twin System (case-based reasoning) for visual and example-based explanations

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 images in 5s per request
- Optimized PyTorch training pipeline using CUDA kernels, cutting training time by 40% on A100 GPUs

LEADERSHIP and RESEARCH

Teaching Assistant | Data Science Programming | Drexel University   **Mar 2025 – June 2025**
- Assisted instruction for 70+ students in Python, Linux, Github, and efficient data processing with NumPy and Pandas
- Designed and graded coding tasks on NumPy, data wrangling, file I/O, and high-performance computing techniques

Course Assistant | Human-AI Interaction | Drexel University   **Dec 2024 – Mar 2025**
- Guided 30+ students on ethical AI frameworks, algorithmic fairness, explainable AI, and responsible data ownership
- Provided project mentorship and feedback aligned with Responsible AI curriculum

PUBLICATION

Jain Aryan, Vora Khushi, Verma Shrey, Churi Prathamesh. Addressing Algorithmic Bias in Healthcare: An Experimental Analysis of Bias Detection and Mitigation Techniques (March 30, 2025). https://dx.doi.org/10.2139/ssrn.5198538

CERTIFICATIONS

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

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