

# Aryan Jain

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## EDUCATION

### MS Data Science

*Drexel University | Philadelphia, PA*

**Sept 2023 – June 2025**

GPA: 3.9

### B.S. in Computer Science with Business Minor

*NMIMS University | Mumbai, India*

**July 2019 – May 2023**

## 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

### Comcast AI Challenge Winner | Philly Codefest 2025

**Mar 2025**

- Created a generative AI-based animated video using tools like META AI, Runway ML for character and scene generation
- Integrated GPT-4 and ElevenLabs for script generation and voice synthesis, creating expressive and human-like dialogues

### Medical Insurance Risk Prediction | Drexel University

**Dec 2023 – Feb 2024**

- Designed XGBoost and Random Forest models to forecast premiums and risk categories, achieving 92% accuracy
- Launched scalable Dash app on Azure App Services for real-time risk scoring and premium simulations

## 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

### Research Assistant | Drexel University

**Jan 2025 – June 2025**

- Deployed ResNet based classifier on NVIDIA Triton Inference Server to batch infer 10,000 images in 5s in a single request
- Optimized a PyTorch-based training pipeline with CUDA kernels, reducing model training time by 40% on A100 GPUs

### 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