

Aryan Jain

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EDUCATION

MS Data Science

Drexel University | Philadelphia, PA

Sept 2023 – June 2025

GPA: 3.9

Bachelor of Technology (Hons.) - Computer Science and Business Systems

NMIMS University | Mumbai, India

July 2019 – May 2023

TECHNICAL SKILLS

Certifications: Azure Data Scientist Associate, Azure AI Engineer Associate

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 Analyst Intern | MitraQSR | Dallas, TX

Sept 2024 – Dec 2024

- Developed FbProphet models to forecast revenue and expenses for 178 stores, deployed via Azure Kubernetes Service and Azure Machine Learning, boosting EBITDA by 5% and optimizing cost forecasting
- Built a SQL-powered Dash dashboard on Azure App Service to track 30+ financial KPIs, cutting reporting time by 40%
- Engineered a reporting system using FastAPI and ETL pipelines to process financial statements, improving EBITDA tracking and reducing report latency by 40%

Data Analyst and Support 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 an AI generated animated video using META AI, Runway ML, and Stable Diffusion for character animation, scene generation, and visual effects
- Integrated generative AI for scriptwriting and voice synthesis using GPT-4, LangChain, and ElevenLabs, ensuring natural dialogues and expressive voiceovers

Medical Insurance Risk Prediction | Drexel University

Dec 2023

- 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

Research Assistant | Drexel University

- Deployed ResNetbased image classification model on NVIDIA Triton Inference Server, achieving batch inference of 5,000 images within 12 seconds in a single request

Course Assistant | Human-AI Interaction | Drexel University

- Guided 30+ students on ethical AI frameworks, algorithmic fairness, explainable AI, and responsible data ownership

Teaching Assistant | Data Science Programming | Drexel University

- Instructed 70+ students in Python, Linux, Git version control, and efficient data processing with NumPy and Pandas
- Designed, graded, and provided feedback on coding assignments focused on scalable data wrangling, file I/O operations, and high-performance computing techniques