

Jowin Jestine

Boston, MA | (860) 706-6565 | jowinjestine@gmail.com | www.linkedin.com/in/jowinjestine

WORK EXPERIENCE

OLARIS, Inc.

Data Engineer III

Boston, MA

2025 – Present

- Engineered an end-to-end analytics system using Azure Functions, FastAPI, and Postgres, achieving <0.5s response time and reducing query latency by 75% across production workloads.
- Architected a HIPAA-compliant, cloud-hosted database with RBAC, geo-fencing, and audit logs, securely governing 1,200+ clinical records and avoiding \$15K in annual compliance costs.
- Integrated AI-driven semantic search across 100K+ metabolites from two diagnostic platforms, cutting retrieval time by 70% and accelerating downstream analytical workflows.

Data Engineer I

2023 – 2024

- Developed a deep learning model to evaluate signal peak quality across 10K+ observations, improving analytical accuracy by 35% and reducing manual review effort by 72%.
- Built reusable Python ML libraries standardizing NMR ingestion and feature extraction, accelerating research pipelines.
- Deployed a FastAPI monitoring service with real-time MS Teams alerts for 200+ parameters, reducing data quality issues.

Boehringer Ingelheim

Data Engineer, Biotherapeutics

Hartford, CT

2022 – 2023

- Migrated 100+ Excel and PowerPoint artifacts across 13 research initiatives into relational databases using Python, enabling integration with the Cloudera Data Lake.
- Defined data schemas using YAML, reducing onboarding time by 30% and improving cross-team data consistency.
- Supported HIPAA compliance strategies for multi-site data warehouses, reducing regulatory risk across clinical analytics.

University of Connecticut

Data Analyst, Budget Planning & Institutional Research

Storrs, CT

2021 – 2022

- Queried and modeled 400K+ records from SAS using SQL to support analysis of student success and retention metrics.
- Optimized SQL reporting pipelines, accelerating delivery of analytical insights for institutional research stakeholders.
- Built interactive dashboards in R Shiny and Tableau, enabling real-time decision-making across academic departments.

Cigna

Graduate Data Science Consultant

Hartford, CT

2021 – 2022

- Trained a neural network TensorFlow to automate ServiceNow incident routing, achieving 87% accuracy.
- Applied NLP lemmatization, topic modeling) to improve accuracy from 30% to 87% and reduce resolution time by 50%.
- Built a real-time incident classification model with 96% recall and 80% precision, improving prioritization and response.

EDUCATION

University of Connecticut

Master of Business Analytics & Project Management

Hartford, CT

University of Mumbai

Bachelor of Engineering in Computer Engineering

Mumbai, India

SKILLS & INTERESTS

Data Science & Analytics: Predictive Modeling, Machine Learning, Deep Learning, NLP, Statistical Analysis, Experimentation
Programming & Tools: Python, R, SQL, TensorFlow, PyTorch, scikit-learn, Pandas, Spark, Hadoop
Data Platforms: Azure, Postgres, Cloudera, Docker, FastAPI, Flask
Visualization: Tableau, Power BI, R Shiny, Apache Superset