Darious Brown

Details

Philadelphia, PA
United States
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Links

GitHub Portfolio

LinkedIn

Skills

Python

R

SQL

GitHub

Streamlit

Power BI

Tableau

MLflow

PyTorch

TensorFlow

Predictive Analytics

Deep Learning (CNNs, LSTMs)

Random Forest

Logistic Regression

ROC-AUC

SHAP

Natural Language Processing

EDA

Hypothesis Testing

Regression Analysis

Clustering

Time-Series Forecasting

Big Data Handling

Aseptic Techniques

Profile

Aggressive and forward-thinking Data Scientist specializing in Artificial Intelligence and Machine Learning, with proven expertise in predictive analytics, deep learning, and ethical AI. Currently serving as an Aseptic Manufacturing Technician in Big Pharma, producing **Amtagvi**, an autologous TIL therapy, while conducting **environmental monitoring** and ensuring compliance in **ISO5 and ISO7 cleanroom environments**. Experienced in bridging biotechnology and computational modeling to optimize drug manufacturing, quality control, and process innovation. Complemented by high-impact projects, including **loan default risk prediction, Bitcoin price forecasting with LSTMs, NASA space exploration forecasting, and healthcare drug pricing analysis**. Positioned as a future Ph.D. candidate in AI & Data Science, committed to advancing transformative research and developing intelligent systems that accelerate innovation in healthcare, finance, and automation.

Employment History

Aseptic Manufacturing Technician, Iovance Biotherapeutics, Philadelphia
AUGUST 2024 — PRESENT

- Conducted environmental monitoring ensuring GMP compliance in biopharma cleanrooms.
- Performed aseptic processing for 50+ tumor samples weekly for advanced TIL therapy workflows.
- Partnered with data teams to capture and analyze lab metrics, supporting predictive quality control.
- Operated high-impact lab equipment: Biosafety Cabinet, LOVO, NC-200 Cell Counter, Controlled Rate Freezer.

Aseptic Manufacturing Technician, Invisible Sentinel, Philadelphia
DECEMBER 2023 — AUGUST 2024

- Executed molecular biology workflows: PCR, DNA cloning, electrophoresis, and transformations.
- Enhanced efficiency by 15% through optimizing aseptic workflows and SOP adherence.
- Collaborated on data reporting processes for regulatory and R&D applications.

Family First Home Health Care

Northeast Building Products

Wyndmoor Hills Healthcare & Rehab Center

Education

Master of Science in Data Science, Bellevue University, Bellevue
JUNE 2024 — AUGUST 2025

Bachelor of Science in Biomedical Sciences, Saint Joseph's University, Philadelphia
AUGUST 2022 — JUNE 2023

Bachelor of Science in Biomedical Sciences , University of the Sciences, Philadelphia
AUGUST 2019 — JUNE 2022

- University of the Sciences underwent a merge with Saint Joseph's University in 2022

High School Diploma, Abington Sr. High School, Abington

Environmental Monitoring

PCR

Electrophoresis

DNA Cloning

English (Fluent)

Spanish (Conversational)

Latin (Basic)

GDP

Application building

Biological Safety Cabinet

Generative Artificial Intelligence

Languages

Latin (Basic)

Spanish (Conversational)

English (Fluent)

Hobbies

- Weight Lifting
- Motorcycles / Dirtbikes
- Fishing
- Basketball
- Family

HONORS & AWARDS

Basketball Athletic Scholarship Recipient

National Honor Society (2018)

Abington Sr. High School Alumni Grant Recipient

National Society of High School Scholars (NSHSS)

SELECTED RESEARCH & PROJECTS

Loan Default Prediction

Developed machine learning models (Random Forest, Logistic Regression) with SHAP explainability in Streamlit deployment.

Bitcoin Price Forecasting

Applied LSTMs and time-series analysis to predict cryptocurrency price trends against USD benchmarks.

NASA Global Space Exploration Analysis

Performed forecasting and predictive analytics on space missions, budgets, and exploration outcomes.

Healthcare Pricing Transparency

Analyzed Medicare Part D datasets to highlight drug pricing disparities; offered policy-focused recommendations.

AI Hallucination Detection App

Fine-tuned GPT-based models to identify and correct AI hallucinations using confidence scoring.