Daniel Bredun

Data Scientist & Engineer

bredun@uni.minerva.edu
github.com/Breedoon
linkedin.com/in/daniel-bredun

Experience

University of Chicago *(Globus Labs)*

Fremont, CA & remote
October 2022 - present

Data Science Research Assistant

- Authored sophisticated models predicting physical properties of unknown compounds based on their chemical composition.
- Integrated the models into existing infrastructure to make them easily reusable by anyone.

Tesla

Fremont, CA & remote
May 2022 - August 2022

Data Analytics & Engineering Intern

- Reduced cost of data replication system by ~5% by designing an alternative using open-source tools (Spark, Kafka, Hudi).
- Diagnosed and resolved inefficiency in data replication system by automating table schema synchronization.
- Sped up PostgreSQL data replication by 300% by migrating it from ETL to data streaming.

New Columbia Solar

Washington, D.C. & remote
May 2020 - present

Data Science & Engineering Consultant

- Designed a relational data warehouse and object-oriented data pipeline for efficient use of asset management data on AWS.
- Increased monthly revenue by $40,000 through an automated predictive model for prompt anomaly detection.
- Reduced maintenance time from 9 to 3 days by building a custom web application for asset monitoring, increasing revenue by 9%.
- Led a team of 2 interns to automate investor reporting saving over 100 hours of manual work monthly, reducing costs by 12%.

Prodigal Sun Solar

San Francisco, CA
October 2019 - May 2020

Data Analyst Intern

- Increased client's revenue by 5% through a hierarchical statistical hypothesis test to compare solar panel manufacturers .
- Devised a creative optimization for fetching procedure, reducing its time from 3.65 days to 53 seconds.
- Built an automated ETL system in Python for processing XML, JSON, and CSV data from solar APIs.

Education

Minerva University

San Francisco, CA
September 2019 - May 2023

B.S. in Computer Science

- Major GPA: 4.0
- **Relevant Coursework**: Machine Learning for Science and Profit, Computational Bayesian Statistics, Prediction and Causal Inference, Simulations and Decision Making, Artificial Intelligence Algorithms, Algorithms and Data Structures

Projects

- BookSync: Project using **NLP** for synchronizing books with audiobooks to improve reading efficiency & **language learning**.
- ML Projects: A collection of exploratory projects solving a wide range of problems with **Machine Learningtechniques**.
- User Engagement (A/B Test): Data analyses over user engagement data over analyzing user activity and an **A/B Test**
- MDtoLongPDF: An improvised script for converting md/html/ipynb files to **long one-page PDFs** (used to make this resume).
- Superblock Simulation: A class project about simulating a **better city design** in Berlin.
- AdmitMe: An app that **helped 300+ high school graduates** find colleges they are most likely to get into,based on historical admissions data scraped from government website (achieving accuracy of 89%).

Skills

	Proficient	**Comfortable**
Technical Languages	Python, SQL	Python, SQL, R, Java, C++, JavaScript, HTML & CSS
Technical Tools	NumPy, Pandas, Matplotlib, Scikit, PostgreSQL	TensorFlow, Keras, Plotly, SciPy, MongoDB
Software Tools	Git, PyCharm, Jupyter	Linux, AWS, Docker, Apache Kafka, Tableau
Languages	English (fluent), Ukrainian (native), Russian (native)	German (written), Polish (basic)