

# SAI PRATIK PENDLI

Vancouver, BC • (250) 215-1700 • [pendlisai@gmail.com](mailto:pendlisai@gmail.com) • [Linkedin](#)

- Senior Data Analyst with 6 years of experience applying machine learning, advanced analytics and data engineering to solve business problems in Retail Operations, Supply Chain, Financial Services and HR.
- Proven ability to develop forecasting models and optimization algorithms that drive data-driven decision-making.
- Expert in end-to-end analytics and automation, with a strong track record of developing ML Models, optimizing workflows and reducing manual effort.
- Proficient in Python (Pandas, NumPy, PyTorch, TensorFlow), and Big Data Frameworks (PySpark, HDFS).

## SKILLS

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**Business Intelligence & Data Visualization:** Power BI, DAX, M Query, Tableau, SQL (MS SQL Server, Snowflake, PostgreSQL)

**Data Engineering & Processing:** SQL, Pandas, NumPy, Apache Spark, Airflow, Data Wrangling, Data Warehousing, Data Pipelines

**Programming Languages:** Python, R, VBA, Advanced Excel

**Machine Learning & AI:** Python (Scikit-Learn, TensorFlow, PyTorch, StatsModels), Time Series Forecasting, Regression, NLP, A/B Testing

**Cloud & Automation:** Microsoft Azure (Functions, DevOps, CI/CD), AWS (Redshift, S3, RDS, Glue), GCP (BigQuery), Git (GitHub, GitLab)

## PROFESSIONAL EXPERIENCE

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*Lululemon • Senior Analyst, Data Analytics and Automation*

11/2023 – 01/2025

- Developed a **Python-based automated** data testing framework for IT SOX Control Test, **reducing compliance workload by 40%**.
- Designed and implemented **analytical models** to improve **risk identification** and **decision-making** efficiency.
- Leveraged **fuzzy matching & NLP** to detect policy violations among vendors, enhancing **compliance enforcement by 30%**.
- Conducted **exploratory data analysis (EDA)** and **anomaly detection** on large datasets, enabling proactive risk management.
- Designed **interactive dashboards** and reporting frameworks to enhance strategic decision-making for the Global Risk team.
- Ensured **accuracy** and **consistency** of analytical models and data outputs through **QA (Quality Assurance), validation, and testing**.

*DHL Supply Chain • Senior Data Analyst*

10/2021 – 11/2023

- Developed **two regression-based ML models**, uncovering **\$0.8M in cost savings** and optimizing operational productivity.
- Built 30+ automated **data pipelines** and 40+ **Power BI dashboards**, enhancing **decision-making** and driving business performance.
- Engineered end-to-end **ETL pipelines** using **Python, Azure Functions, and Data Factory** to automate data extraction from legacy MS-DOS systems, reducing manual effort by 75%.
- Developed **Power BI dashboards** to support HR teams identify hiring **trends** and analyze **employee/user retention**.
- Developed a **time series regression** framework for **demand forecasting**, optimizing SKU-level **predictions** for 3,000+ items.
- Streamlined data processes and built **scalable data infrastructure** across 5 retail warehouses, improving operational efficiency.
- Partnered with **Finance, HR, and Operations** to define KPI, develop **analytical solutions**, and generate **data-driven insights**.

*DHL Supply Chain • Operations Analyst*

04/2019 – 10/2021

- Led data infrastructure setup for 2 warehouse DCs, implementing robust **ETL processes** and **Power BI dashboards**, enabling **data driven decision-making** and improving operational efficiency.
- Optimized MHE costs by 20% through **Linear Programming** and **Optimization**, ensuring scalability for rising grocery demand.
- Achieved 10% monthly savings with **ROI financial models** and **scenario analysis**, driving **improved budget planning**.
- Improved **demand forecasting** accuracy from 85% to 95% with a **statistical model**, enhancing operational planning.

## PROFESSIONAL DEVELOPMENT

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**Google Cloud Professional Machine Learning Engineer Certification (MLOps)** (in progress, expected Jun 2025)

**Udacity Data Engineer Nanodegree** (in progress, expected Apr 2025)

**MIT MicroMasters in Statistics and Data Science** (Feb 2021 – Apr 2024)

**MIT MicroMasters in Supply Chain Management** (Apr 2018 – Sep 2019)

## EDUCATION

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*Master's in Mechanical Engineering • UBC, Canada*

2018

*Bachelor's in Mechanical Engineering • VIT University, India*

2016