

Peter Sushko

Computer Vision and Machine Learning

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WORK EXPERIENCE

RAIVN LAB UW

Seattle, WA

Student Researcher

Jun 2023 - current

- Developed a dataset of 150K image-text pairs and introduced novel evaluation benchmarks for conditional image generation models.
- Built *RealEdit*: a state-of-the-art diffusion-based model for image editing tasks.
- Collaborated with senior researchers to design experiments, analyze results, and refine hypotheses.

Skills: ML Research, Data wrangling, Model fine-tuning, Experimentation, PyTorch, Python.

Neustar

San Francisco, CA

Senior Data Scientist

Dec 2021 - Aug 2022

- Responsible for statistical analysis of customer attribution data for product & campaign development.
- Served as a Project Lead for 6 months to lead model development and ensured statistical analysis standards.
- Collaborated with research scientists and cross-functional ML teams to improve model accuracy.
- Presented insights & KPIs to clients' C-suite and marketing teams; translated technical nuances into business contexts.

Skills: Statistical Analysis, Customer attribution models, Team management, Model fine-tuning.

Data Scientist

May 2020 - Dec 2021

- Designed, trained, deployed and validated machine learning models measuring marketing campaign efficiency.
- Boosted revenue by up to 6% for clients like BofA and Nike by fine-tuning customer acquisition ML models.
- Reduced EDA time from 3 days to 5 hours with a Python script automating GCP SQL queries.
- Utilized ML models to analyze pricing sensitivity resulting in higher revenue and new customer acquisition.

Skills: Growth marketing models, Pricing sensitivity, Model validation and fine-tuning, Python, SQL.

Palo Alto Networks

Santa Clara, CA

Data Analyst

Aug 2019 - Mar 2020

- Implemented data pipelines to extract insights and KPIs on revenue streams of recent acquisitions.
- Decreased team workload by 200+ man-hours per month by developing an automated Python tool to generate monthly revenue reports.
- Detected data trends, predicted KPIs, and visualized results with Pandas, Numpy, and Seaborn in Python.

Skills: Data pipelines, Data wrangling, Data Visualization, Dashboards, Forecasting, SQL, Python.

Fleer

Remote

Data Analyst

Jun 2017 - Aug 2019

- Analyzed pricing data by designing, refining and evaluating A/B tests to optimize pricing strategies.
- Increased new product revenue by record 19% by building an ML model to identify leading drivers of sales.
- Created Tableau dashboards to visualize key metrics, utilizing an SQL-based data pipeline for data processing.
- Gathered, extracted and compiled data at scale using ETL pipeline; structured and validated data quality.

Skills: Pricing Experimentation, A/B testing, ML modeling, Python, SQL pipeline, Dashboards, Tableau.

EDUCATION

University of Washington

Seattle, WA

Master of Sciences in Statistics (3.8)

Sep 2022- Jun 2024

Coursework: Experimental Design & Machine Learning

Santa Clara University

Santa Clara, CA

Bachelors in Mathematics and Economics (3.6)

Sep 2015 - Jun 2019

SKILLS

Technical Skills: Python, R, SQL, C++, hip, TensorFlow, GitHub, PyTorch, Hadoop, Spark, Cloud applications

Statistics: A/B Testing, Hypothesis testing, Experimental Design, Kernel Density, Likelihood Estimation

Machine Learning and Modeling: Model Building and Deployment, Feature Engineering, Deep Learning, Gen AI