Alexander Ilyin

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EXPERIENCE

Data Analyst, Connor Group, Santa Clara, CA July 2020 - Present

- Developed data pipelines using Python and the iPaas integration tool Workato for Connor Group clients using API endpoints from ERP and accounting software such as Netsuite and Salesforce to connect clients' internal systems with transactional data from affiliated payment service providers. New data pipelines decreased compilation times of legacy systems by up to 30%
- Used Python, Pandas and PostgreSQL to connect to payment service providers through API endpoints, extract transactional data, and transform data to a standardized format before using Workato to create relevant records within the client's internal systems
- Collaborated with cross-functional finance, accounting, and engineering teams to gather and translate initial requirements, create documentation for projects, and to present solutions
- Performed thorough analysis and validation of data before creating requirements and data logic that was communicated back to clients to ensure that the proposed solution would meet both engineering and financial standards
- Assisted the client with monitoring and debugging of the new pipelines following deployment

EDUCATION

UC San Diego | Masters of Science in Analytics **(3.8/4.0)** June 2020

- Relevant Courses: Machine Learning Systems, Statistics for Analytics, Customer Analytics,
- Recipient of Rady/UC Academic Fellowship, Admissions Ambassador

UC Santa Cruz | Bachelors of Science in Management Information Systems – Honor's **(3.5/4.0)** June 2019

- Relevant Courses: Calculus I-III, Linear Algebra, Probability Theory, Data Structures, Database Management Systems
- Dean's List, Member of Information Systems Management Association and Tennis Club

PROJECTS

MS Analytics Capstone Project

- Partnered with a local social media analytics company, led project that involved the use existing social media interaction data to optimize future social media campaigns for the company's clients
- Used the Python library Scipy to apply Unsupervised Clustering techniques and cluster the clients' products based on their attributes, and evaluated social media success within clusters using a self-defined social media brand score
- Applied Machine Learning models in Python such as Logistic Regression, Random Forest, and Recurrent Neural Networks (RNN) using libraries Sklearn and Keras to predict success of social media campaigns and products based on current trends
- Implemented Natural Language Processing techniques such as topic modeling and sentiment analysis with visualization techniques such as word frequency and word clouds to allow further exploration of social media trend fluctuations

Python/C++ Wrapper for Spotify API

- Integrated Python and C++ to create a more efficient version of existing Python Spotify API wrappers
- Authentication, API requests and other heavy lifting is done through C++, with Python handling request responses and serving as the interface through which users interact with the API
- In direct comparison to other popular Spotify wrappers, the library reduced compilation times by up to 25%

Twitter Data Collection Web App

- Built a Django-based web app for the popular Python Twitter API library "Tweepy" to allow users to seamlessly scrape live data from Twitter for research purposes
- Tweets are asynchronously streamed to a backend PostgreSQL database using Celery task scheduling, users can then download their data and view basic analytics and visualizations created from the newly acquired dataset

SKILLS

Programming Languages: Python (Pandas, Matplotlib, Scikitlearn, Keras), R (ggplot, Plotly, Tidyverse), C++, PostgreSQL

Data Visualization: Tableau, R-Shiny, Python-Dash

Other: Python Web Frameworks – Flask/Django, PySpark, AWS Sagemaker, ETL, A/B Testing