Alexander Ilyin

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EXPERIENCE

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

- Designed, developed, and deployed automated data pipelines using Python and the iPaaS integration tool Workato for Connor Group clients as well as API endpoints from internal systems such as Netsuite and Salesforce to connect client's systems with transactional data from affiliated payment service providers. New data pipelines decreased compilation times of legacy integrations by up to 30%
- Used Python libraries such as Pandas and Requests 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, with Cron task scheduling being used to trigger the workflows. Amazon S3 and Athena backend data stores were used to maintain historical client data
- Delivered engineering solutions to clients ranging from high growth startups to established firms to support client's financial and accounting goals, such as establishing efficient accounting practices and IPO readiness
- Performed thorough analysis and validation of data to make sure proposed solutions would adhere to financial rules and regulations, before using tools such as Lucidcharts to document Entity Relationship Diagrams, use cases, and ETL workflows

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

- Used the Python library Scipy to apply Unsupervised Clustering techniques and products based on their attributes, and evaluated social media advertising campaign success within clusters using a self-defined social media brand score
- Used Python to apply Machine Learning models such as Logistic Regression, Random Forest, and RNNs using libraries Sklearn and Keras to optimize future social media advertising campaigns and predict the success of products
- Implemented NLP techniques such as Topic Modeling and Sentiment Analysis with visualization techniques such as word frequency and word clouds to allow further exploration of marketing campaign score fluctuations

Python/C++ Wrapper for Spotify API - https://github.com/alexilyin1/CPPotify

- 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 API libraries, my library reduced compilation times by up to 25%

Twitter Data Collection Web App - https://github.com/alexilyin1/tweebot

- 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 and Redis for 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, Snowflake