Adam Klaus

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Professional Experience

Analytics Engineer   **November 2020 – Present**
CreditNinja, Chicago, IL

- Developed dynamic ETL process with Python, cron job, AWS lambda and Redshift to translate loan application model results of 60+ Machine Learning models to be used in dashboards to understand model accuracy vs. loan performance
- Present ad hoc analysis to senior management by data mining with Python, SQL in multiple databases and Sisense
- Evaluate proper deployment of changes to our systems (model thresholds, customer types, products) by communicating with product managers and developers, reviewing pull requests and standardizing queries to check changes
- Build dashboards and author queries for dependent views by writing parameterized SQL to add flexibility in reporting capabilities and reduce future tech debt

Data Scientist   **October 2018 – October 2020**
Human Capital Research Corporation, Evanston, IL

- Consulted colleges on enrollment strategy (improving head count, revenue, academic profile, diversity) using statistical modeling and ad hoc analysis to predict outcomes for student inquiries, applicants and admits
- Built ETL data pipelines in Python to source clients' data which shortened turnaround time for reporting analytics from a few hours to minutes and standardized feature engineering for model building
- Introduced a machine learning pipeline to improve modeling accuracy using MSSQL database, Python scripting and sci-kit learn for feature selection, hyperparameter tuning, model fitting and model performance evaluation
- Developed self-service tools deployed through our internal company website to output client deliverables that analyzed public, client and survey data using API integration, web-scraping, optimization and sentiment analysis
- Managed an intern and junior developer on projects such as the design of multiple SQL databases, conversion of excel macro-workbooks to web applications and the creation of a Python Flask server with API endpoints

Prior Experience: Staff Consultant at Baker Tilly, Student Tableau Developer at the University of Wisconsin-Madison, Summer Analyst at JP Morgan Chase

Skills

Languages: Python, SQL, VBA, R, SAS, HTML, CSS, JavaScript
SDLC: Object Oriented Design (OOP), Agile, Jira, Confluence
Database: MSSQL, Postgres, MongoDB, RDS, Redshift, Redis
AWS & Cloud: Sagemaker, EC2, Lambda, S3, Athena, Elastic Beanstalk
DevOps: Git, Azure Devops, Visual Studio, Docker, Datadog, Airflow, Spark, Cron Jobs, Virtual Environments
Business Intelligence: Tableau, Sisense, SPSS, Excel (Advanced), Qualtrics
Python Libraries: Pandas, Numpy, TensorFlow, Scikit-Learn, Keras, BS4, Scipy, NLKT, FuzzyWuzzy, Plotly, Seaborn
Web Development: Flask, Django, Dash, Jinja, R Shiny, APIs

Additional

Leadership & Volunteer: Sunrise Movement Chicago Data Team Lead, Assistant Coach of Evanston High School Boy Ultimate Frisbee Team, Statistics Without Borders Analytic Volunteer, Chicago Scholars Interviewer

Interests: Podcasts, Ultimate Frisbee, Ukulele, Hiking, Cooking, Sports Analytics, Climate Justice

Education

M.S. Data Science (Computational Methods)
DePaul University,
Chicago, IL / 2020 – Present *(32 of 64 credits completed)*

B.B.A. Finance | Operations & Technology Management
University of Wisconsin-Madison,
Madison, WI / 2014 – 2018

Relevant Courses: Advanced Machine Learning, Programming Machine Learning Applications, Advanced Data Analysis, Data Analysis and Regression, Python Programming, Data Visualization