

Adam Klaus

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Professional Experience

Business Analyst

CreditNinja, Chicago, IL

November 2020 – Present

- Developed dynamic ETL process with Python, Redshift, CRON, Lambda and S3 to translate 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

Human Capital Research Corporation, Evanston, IL

October 2018 – October 2020

- 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 scikit 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

Database: MSSQL, Postgres, MongoDB, Oracle, Redis

AWS/Cloud: Sagemaker, EC2, Lambda, S3, Elastic Beanstalk, RDS, Redshift

BI & Reporting: 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,

PythonAnywhere

SDLC: Object Oriented Design (OOP), Git, Azure Devops, Agile, Waterfall,

Jira, Confluence



Additional

Leadership & Volunteer: Sunrise Movement Chicago Data Team Lead, Assistant Coach of Evanston High School Boys Ultimate Frisbee Team, Statistics Without Borders Analytics 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