

JACK H. MONAGHAN

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United States and German Citizenship

SUMMARY

I am a proactive and ambitious analyst with four years of experience designing and automating data pipelines and analytics tools. Expert in transforming complex datasets into actionable insights. With strong communication, project management, and stakeholder management skills; I thrive in dynamic environments where multitasking and innovation are key. I maintain a “no-problem” attitude and take pride in delivering high-quality results.

SKILLS

Languages & Tools: Python, SQL (PostgreSQL), R, Tableau, and Power BI

Applications: Azure DevOps, GitHub, VS Code, Excel (Pivot Tables), Power Point, and Figma

Skills: Project Management, Data Analysis, Data Engineering, Data Mining, Machine Learning, and UI/UX Design.

EMPLOYMENT HISTORY

Illinois Criminal Justice Information Authority | Project Manager – Data Analytics and Engineering

Chicago, IL | April 2024 - Present

- Architected and optimized data pipelines using Azure DevOps to migrate data into SQL databases and Tableau dashboards, eliminating 8 hours of manual labor weekly.
- Engineered scalable workflows in Python, SQL, and R to normalize 350–400 semi-structured datasets from multiple sources into an organized database for downstream reporting and public transparency.
- Implemented version control CI/CD best practices by coordinating GitHub workflows and Agile sprint executions within Azure DevOps.
- Modernized the team’s development ecosystem while adhering to budget constraints and security risks:
 - Migrated repositories from GitLab to Azure DevOps
 - Transitioned the team from Posit to VS code reducing licensing costs by \$37,000 per annum.
- Led data governance initiatives, including the negotiation of 5 intergovernmental data-sharing agreements and the auditing of statutory data requirements.
- Maintained multiple Tableau dashboards, ensuring data integrity through rigorous model validation and quality auditing.
- Supervised a Web Developer and Data Analyst providing technical guidance, prioritizing workloads, and ensuring high-quality deliverables.

Publicly available example: [Workbook: Prison Population - Sentencing County](#)

Novo Nordisk | Statistician and Data Analyst

Copenhagen, DK | March 2022 – November 2023

- Developed automated statistical models (Mixed-model, Time-series) using Python and Jupyter Notebooks to optimize supply chain and waste management.
- Translated business requirements from non-technical stakeholders into technical data products.
- Conducted deep-dive data mining and trend analysis using Python and Tableau to identify operational bottlenecks.

University of Copenhagen

Teachers Assistant for Modelling and Analysis of Data

November 2021 – February 2023

Copenhagen, DK

- Supported students in introductory machine learning courses.
- Taught review sessions and assisted students with problem sets and assignments.

EDUCATION

MASTER OF SCIENCE IN ENVIRONMENTAL ECONOMICS

University of Copenhagen

2021-2023

Copenhagen, DK

BACHELOR OF SCIENCE IN MATHEMATICS AND ECONOMICS

University of Puget Sound

2016-2020

Tacoma, WA