

Jacob McLean

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PROFESSIONAL SUMMARY

Data Analytics Engineer with over 3 years of experience designing scalable data pipelines and deploying AI-driven Generative BI solutions. Proven track record of driving operational efficiency, highlighted by reducing manual data processing time by 40% and improving predictive forecasting accuracy by 15% through advanced statistical modeling.

EXPERIENCE

Data Analytics Engineer

McLean Telecom LLC

February 2023 – Present

Remote

- Designed and implemented automated data pipelines using **Python**, **SQL**, and **Snowflake**, reducing manual processing time by 40% and enhancing data availability for reporting and executive dashboards.
- Conducted **exploratory data analysis** on datasets with over 1M records using **Pandas** and **Tableau**, delivering actionable insights that optimized digital platform performance and guided product strategy.
- Developed and maintained **monthly reporting frameworks** leveraging SQL and Power BI, enabling stakeholder access to key KPIs including churn, retention, and revenue trends.
- Created advanced statistical models and **forecasting algorithms** to support business planning, resulting in a 15% improvement in forecasting accuracy for marketing and operations teams.
- Delivered regular data storytelling presentations and dashboards to non-technical stakeholders, influencing data-driven decision making across departments.

PROJECTS

Multi-Agent Sales Forecasting System | *Python, CrewAI, Scikit-learn, SQL*

2026

- Orchestrated a multi-agent AI workflow utilizing CrewAI to automate end-to-end sales forecasting and comprehensive business reporting.
- Developed specialized AI agents to autonomously handle distinct pipeline stages, including data preprocessing, time-series forecasting, and the generation of executive summaries.
- Improved predictive modeling efficiency by decentralizing analytical tasks, delivering highly accurate sales projections and actionable insights to support business planning.

OpenClaw Autonomous Data Analyst | *Python, OpenClaw, Pandas, LLMs*

2026

- Engineered an autonomous data analysis agent using the OpenClaw framework to automatically ingest, clean, and analyze datasets directly from user uploads.
- Integrated Large Language Models (LLMs) with local file system capabilities, enabling the dynamic generation and execution of Python scripts for statistical analysis and anomaly detection.
- Streamlined the exploratory data analysis workflow by delivering automated summaries and visualizations directly to non-technical stakeholders via a natural language interface.

EDUCATION

Michigan State University

Bachelor of Science in Mathematics

East Lansing, MI

August 2024

TECHNICAL SKILLS

Languages: Python, SQL, R, LaTeX

Cloud and Big Data Platforms: AWS, GCP, Azure, Databricks, Hadoop, Spark

Data Engineering Tools: ETL Pipelines, Apache Airflow, Kafka, DBT, Snowflake

Data Visualization Tools: Tableau, Power BI, Excel

Libraries: TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, NumPy, SciPy, Matplotlib

Databases: MySQL, PostgreSQL, Microsoft SQL Server