Tia Hannah

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Technical Skills and Languages

Languages: Beginner Spanish, Fluent English
Programming Languages: Python, Rust, CSS, HTML, JavaScript, SQL, R
Operating Systems: Windows 10 / 8 / 7 and Linux
Software: Trello, Asana, Notion, ServiceNow, Power BI, Tableau,Looker Studio, D3.js, Pandas, NumPy, Scikit-learn, TensorFlow,YoloV8, Keras, XGBoost, Microsoft Azure, Microsoft Office Suite (Word, Excel, PowerPoint, Outlook)
Skills: Data Visualization, Data Cleaning, Data Wrangling, Data Pipeline Development, Business Intelligence Reporting, Dashboard Creation, KPI Tracking, Regression Analysis, Forecasting & Trend Analysis, Statistical Analysis, Machine Learning, Predictive Modeling, API Integration

Relevant Experience

Living Stones Foundation   Remote
Big Data Analyst (Volunteer)   Feb 2025- May 2025
- **Executed multiple data projects** across different business needs, cleaning, analysing, and visualizing large datasets, producing actionable insights to support cross-functional and executive decision-making.
- **Organized KPIs** and project goals using weekly meetings and **Asana**, enabling effective tracking and reporting of team performance across **3+ simultaneous projects**.

BU Metropolitan College IT   Boston, Massachusetts
Information and Technology Support Specialist   Aug 2024 – May 2025
- Diagnosed and resolved **hardware, software, and network issues**, ensuring seamless functionality for **over 500 professors, administrative staff, and students**.
- Collaborated with cross-functional teams to optimize system performance, improving **average ticket resolution time by 15%**, and minimizing workflow interruptions for critical academic and administrative projects.

Speak Play Learn Therapies for Kids   Aventura, Florida
Web Designer   Jun 2024 – Aug 2024
- Created and developed the website for a startup speech clinic, utilizing **UX/UI design principles** to improve user experience, **increase online traffic by 30%** and enhance the clinic's **digital presence**.
- Assisted in **establishing data operations**, ensuring **HIPAA compliance**, developing marketing materials, including slogans, and sourcing artists for logo design.

BU College of Engineering IT   Boston, Massachusetts
Information and Technology Consultant   Sept 2022 – Jan 2024
- Provided technical support and resolved hardware and software issues for **over 1000 campus users and faculty** within the College of Engineering at Boston University using **ServiceNow** ticketing system.
- Ensuring seamless connectivity for users by utilizing **diagnostic software and equipment** to identify and troubleshoot **network issues**.

Project Experience

Youth Justice and Power Union Police Overtime Analysis Practicum| Python, Looker Studio   Sept 2024- Dec 2025
- Analyzed police overtime spending at Massachusetts Ave and Melnea Cass Blvd., highlighting **overfunding trends** and recommending **budget reallocation strategies**; created **slide decks** for **biweekly client meetings** to present findings and adjust analysis as needed.
- Built an **interactive Looker Studio dashboard** visualizing police salary and arrest data, enhancing **transparency** and supporting **data-driven policy recommendations**.

Spare-It Waste and Recyclable Image Segmentation Model Practicum | Python, Yolo V8   Sept 2024- Dec 2025
- Designed and deployed a scalable data pipeline for preprocessing and augmentation, **increasing segmentation model precision by 15%** for underrepresented waste categories.
- Executed exploratory data analysis on **25,000 labeled images**, addressing class imbalances through augmentation techniques and strengthening model performance for more accurate predictions.

Waste Prediction Datathon | Python   Mar 2024 - Mar 2024
- Led a **2nd place team of five** in a 24-hour Datathon, performing extensive data cleaning and analysis to predict waste from multiple campus buildings; achieved **72% predictive accuracy** under tight time constraints.
- Developed and presented an **innovative ensemble model** combining regression and k-nearest neighbor algorithms to forecast catering event limits per building.

COVID-19 Policy Recommendations| SQL,Power BI   Apr 2023 - May 2023
- Served as **Quality Assurance Lead**, validating **four datasets** structured in a **star schema**, testing pipelines, and ensuring data accuracy before analysis, building a reliable Azure-based data warehouse.
- Evaluated correlations and visualized COVID-19 rates and policies using **Power BI**, highlighting the most effective measures to reduce COVID-19 cases.

Education

Boston University   Boston, Massachusetts
B.S. in Data Science   Expected Dec 2025
Coursework: Data Mechanics, Programming for Data Science, Modeling Business Decisions and Market Outcomes, Statistics, Linear Algebra.