BOB ADAMS - Data Scientist

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I am a Data Scientist and experienced innovator. My 12 year career has led me to drive solutions to complex data and operational problems as a consultant and at a hypergrowth unicorn startup. I am excited to bring my team leadership experience, flexibility and passion to collaborate with business and product leaders on their toughest data challenges.

"Bob is our swiss army knife - we point him at problems and he fixes them" - Nilam Ganenthiran, President Instacart

SKILLS

- **Languages**: Python (pandas, scikit learn, statsmodels, seaborn), Tensorflow, Databases (MySQL, Snowflake), R
- **Tools**: Excel, Tableau, Mode Analytics, Sisense Periscope, Carto, MS Project, Jira, Confluence
- **Methods**: Supervised Machine Learning, Unsupervised Machine Learning, Neural Networks, Natural Language Processing, Time Series, Geospatial Analysis

PROJECTS

- **Unaddressed Greek House Identification** - Leveraged Google Earth API and Convolutional Neural Networks to categorize and locate houses on Greece's 7th largest island based on roof material and design
  Skills: APIs, Folio, OpenCV3, Convolutional Neural Networks
- **Reddit Conversation Categorization** - Leveraged seven competing machine learning models to categorize Reddit post conversations from two popular, high-overlap relationship subreddits with an 84.5% accuracy
  Skills: Natural Language Processing
- **Promoting Sustainable Water Usage Practices** - Led a team to present a compelling, local story on water usage and climate through interactive visualizations. Clustered U.S. counties by water usage and climate patterns via k-means, created interactive animated choropleths and climate time series visualizations.
  Skills: Clustering, Time Series, Tableau, Streamlit, Plotly

PROFESSIONAL EXPERIENCE

INSTACART   Chicago, IL

Data Manager - Operations Management Office   *Feb 2021 - Mar 2023*
Team Lead
- Created and led a team of Sr. Analysts, driving Operations KPIs and OKRs, experimentation
- Developed cross-team analyst best practices and community engagement forums, accelerating collaborations

Impact Driver
- Analyzed and drove experiments to enhance delivery capabilities (urban delivery, large items, heavy orders)
- Owned a centralized reporting clean-up drive, resulting in over $1M in annual cost savings in less than two weeks
- Developed a semi-weekly, contextualized leadership report encompassing all critical KPIs and OKR updates
- Designed and delivered a monthly competitive landscape assessment for executive leadership, leveraging partner from third-party aggregators

Trusted Partner
- Collaborated with product leaders to design and execute seven experiments, resulting in three net-new fulfillment offerings (scooter delivery, Big & Bulky Items, Christmas Trees)
- Partnered with Operations team leads to scope and quantify organization-level OKRs
- Advised Public Policy teams with insights for critical publications; created insights intake and review process

Educator and Mentor
- Deployed a series of live insights trainings and best practices events for over 200 analysts and business users
- Built company-wide training on a key data structure reaggregation, ensured zero critical reporting failures
- Led a monthly experiment and project highlight and discussion series, bringing 15 diverse teams to the table

Operations Manager   *Jul 2019 - Feb 2021*
- Managed a Tier 1 city during Instacart's first labor relations drive, developed initial employee relations tooling
- Built tracking and reporting systems for in-store cleaning activity, ensuring customer safety during COVID-19
- Led the design and implementation of a shopper performance management program including solution design, target methodology, metrics, management tools, and scripting
- Created a store ownership and management framework (taxonomy), used as a single source of truth in reporting filters and metrics aggregation across all Field Operations teams

Business Development Operations Manager *Apr 2017 - Jul 2019*
- Consulted with Finance and Engineering teams on the implementation of a third party invoicing system
- Managed key retail partners through large-scale geographic expansions, driving 10X annual growth
- Advised product managers through the creation of enterprise retailer products

CAPGEMINI Chicago, IL
Senior Consultant *Jun 2014–Mar 2017*
- Managed stakeholders and vendors in automotive, supply chain, food service and retail sectors to solve complex business and technical problems through the implementation of highly-customized systems
- Interpreted various business needs to recommend optimal services and custom solutions to drive improved efficiency and overall value to partners
- Led solution design sessions with partner executives and business stakeholders
- Presented solution proposals at all organizational levels

Staff Consultant *Jun 2012-Jun 2014*
- Led geographically distributed teams to define and implement complete solutions throughout SDLC
- Organized and led improved training program for incoming consultants

ICI SERVICES Washington, DC
Naval Architect *Jun 2011–Jun 2012*
- Provided engineering support for the U.S. Navy's Testing and Evaluation program; 17 Navy Ship Classes

Engineering Analyst *May 2010-Aug 2010*
- Provided analytical support for seven U.S. Navy ship classes

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PATENTS
- Adams, Robert. 2021. Receipt content capture device for inventory tracking. U.S. Patent 20220284379, filed March 2021 and issued September 2022
- Adams, Robert. 2023. Establishing a communication session using a handshake process with light signals. U.S. Application No. 18/176,233. Filed February 2023

EDUCATION

Certificate - Data Science Immersive, General Assembly, Remote *Aug 2023*

University of Michigan - College of Engineering Ann Arbor MI
- B.S.E. Naval Architecture and Marine Engineering *May, 2011*