

# Thomas Campbell

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• @thomas.campbell

## Entry Level Machine Learning Engineer

Highly motivated and results-oriented Entry Level Machine Learning Engineer with a strong foundation in developing and implementing machine learning models. Skilled in optimizing algorithms for improved accuracy and processing time, as well as designing data pre-processing pipelines to enhance input data quality. Proven track record of achieving significant reductions in churn rate, increasing customer retention, and driving revenue growth through predictive modeling and fraud detection.

### WORK EXPERIENCE

**Entry Level Machine Learning Engineer** 01/2023 – 04/2023

Adaptive Intelligence Corp.

- Developed and implemented a machine learning model to predict customer churn, resulting in a 10% reduction in churn rate and a 5% increase in customer retention.
- Collaborated with data scientists and software engineers to optimize the performance of machine learning algorithms, achieving a 15% improvement in accuracy and a 20% reduction in processing time.
- Designed and implemented a data pre-processing pipeline to clean and transform raw data, improving the quality and reliability of input data for machine learning models.

**Machine Learning Analyst** 09/2022 – 12/2022

ML DataSolutions Inc.

- Analyzed and processed large datasets to identify patterns and trends, leading to the development of a predictive model that increased sales by 10%.
- Researched and implemented state-of-the-art machine learning techniques, resulting in a 5% improvement in model accuracy and a 10% reduction in false positives.
- Monitored and evaluated machine learning models in production, identifying and resolving issues that improved model performance by 8%.

**Machine Learning Developer** 07/2022 – 09/2022

OptiRealm Services

- Designed and developed a machine learning application for fraud detection, reducing fraudulent transactions by 15% and saving the company \$100,000 annually.
- Implemented and maintained a machine learning pipeline for real-time data processing, enabling faster decision-making and reducing response time by 20%.
- Contributed to the development of a software library for machine learning applications, increasing the efficiency and scalability of model development by 30%.

### SKILLS & COMPETENCIES

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| <ul style="list-style-type: none"><li>Proficiency in Python and R programming languages</li><li>Knowledge of machine learning algorithms and libraries</li><li>Experience with data pre-processing and cleaning</li><li>Ability to analyze and interpret complex datasets</li><li>Familiarity with big data platforms and tools, such as Hadoop and Spark</li><li>Proficiency in SQL and database management</li><li>Experience with deep learning frameworks like TensorFlow or PyTorch</li><li>Understanding of predictive modeling and statistical analysis techniques</li><li>Ability to implement and maintain machine learning pipelines</li><li>Knowledge of state-of-the-art machine learning techniques</li><li>Experience with data visualization tools, such as</li></ul> | <ul style="list-style-type: none"><li>Tableau or PowerBI</li><li>Strong problem-solving skills</li><li>Ability to work collaboratively with data scientists and software engineers</li><li>Experience in monitoring and evaluating machine learning models in production</li><li>Understanding of software development methodologies and tools</li><li>Familiarity with cloud platforms like AWS, Google Cloud, or Azure</li><li>Knowledge of Natural Language Processing (NLP)</li><li>Understanding of reinforcement learning</li><li>Familiarity with version control systems like Git</li><li>Strong communication skills</li><li>Ability to translate complex findings into understandable insights.</li></ul> |
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### COURSES / CERTIFICATIONS

**Professional Certificate in Machine Learning and Artificial Intelligence** 08/2023  
from edX  
edX

**Google Cloud Certified – Professional Machine Learning Engineer** 08/2022  
Google Cloud

**IBM AI Engineering Professional Certificate** 08/2021  
IBM

### EDUCATION

**Bachelor of Science in Machine Learning** 2019–2023  
Carnegie Mellon University , Pittsburgh, PA  
Machine Learning  
Data Science