Emily Brown

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Senior Machine Learning Engineer

Results-oriented Senior Machine Learning Engineer with a proven track record of developing and implementing cutting-edge algorithms and models that drive significant improvements in customer churn prediction accuracy, customer satisfaction scores, and fraud detection. Skilled in analyzing large datasets, designing personalized recommendation systems, and optimizing machine learning pipelines for real-time data processing. Adept at researching and adopting state-of-the-art technologies to enhance model performance and operational efficiency, while consistently delivering impactful results and driving business growth.

WORK EXPERIENCE

Senior Machine Learning Engineer   01/2023 – 04/2023
NeuraByte Tech

- Developed and implemented a machine learning algorithm that improved customer churn prediction accuracy by 25%, resulting in a 10% reduction in customer attrition and a 5% increase in customer retention rate.
- Designed and developed a machine learning model to analyze customer feedback data, leading to the identification of key areas for product improvement and a 15% increase in customer satisfaction scores.
- Collaborated with data scientists and engineers to develop a machine learning solution for fraud detection, resulting in a 30% reduction in fraudulent transactions and a cost savings of $500,000 annually.

Machine Learning Engineer   09/2022 – 12/2022
VirtuLearn Tech

- Analyzed a large dataset of customer behavior to identify patterns and trends, leading to the development of a personalized recommendation system that increased click-through rates by 20% and revenue by 10%.
- Developed and maintained a machine learning pipeline for real-time data processing, resulting in a 50% reduction in data processing time and improved system efficiency.
- Researched and evaluated new machine learning technologies, leading to the adoption of a state-of-the-art deep learning framework that improved model performance by 15%.

Machine Learning Engineer   07/2022 – 09/2022
MetroSync

- Developed and maintained a machine learning infrastructure that supported the training and deployment of models at scale, resulting in a 40% reduction in model deployment time and improved operational efficiency.
- Developed and maintained machine learning libraries that enabled the reuse of code and accelerated the development of new models, reducing development time by 30%.
- Developed and maintained machine learning APIs that allowed seamless integration of models into production systems, resulting in a 25% increase in the number of models deployed and improved system scalability.

SKILLS & COMPETENCIES

- Proficiency in machine learning algorithms and models
- Expertise in data analysis and pattern recognition
- Experience in developing and maintaining machine learning pipelines
- Knowledge of deep learning frameworks
- Ability to develop and maintain machine learning infrastructure
- Proficiency in developing machine learning libraries
- Experience in developing and maintaining machine learning APIs
- Strong collaboration and teamwork skills
- Experience in customer churn prediction and fraud detection
- Ability to analyze customer feedback data for product improvement
- Experience in developing personalized recommendation systems
- Proficiency in real-time data processing
- Ability to research and evaluate new machine learning technologies
- Experience in training and deploying models at scale
- Ability to integrate models into production systems
- Strong problem-solving skills
- Proficiency in programming languages such as Python, R, or Java
- Knowledge of data visualization tools
- Experience with cloud platforms like AWS, Google Cloud, or Azure
- Understanding of software development methodologies and practices.

COURSES / CERTIFICATIONS

Professional Certificate in Machine Learning and Artificial Intelligence from Berkeley Executive Education   08/2023
Berkeley Executive Education

Advanced Certification in Machine Learning and Cloud from IIT Madras   08/2022
Indian Institute of Technology Madras

TensorFlow Developer Certificate from Google Developers Certification   08/2021
Google Developers Certification

EDUCATION

Master of Science in Machine Learning   2008-2012
Carnegie Mellon University , Pittsburgh, PA

Machine Learning
Computer Science