SARAH CHEN

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SKILLS

Languages: Python, SQL, R, Scala, Java

ML/AI: PyTorch, TensorFlow, Scikit-learn, XGBoost, LightGBM, MLflow, Statistical Learning, Feature Engineering

Cloud & MLOps: AWS (SageMaker, EC2, S3, Lambda), GCP, Docker, Kubernetes, MLOps, CI/CD, Model Optimization

Data: Apache Spark, Pandas, NumPy, PostgreSQL, MongoDB, Redis, Airflow

Tools: Git, Linux, Jupyter, Weights & Biases, CUDA, A/B Testing

EXPERIENCE

Senior Machine Learning Engineer | TechCorp | Jan 2020 - Present

• Designed and deployed 15+ production ML models using PyTorch and TensorFlow, serving 50M+ daily predictions with 99.9% uptime and <100ms latency

• Led cross-functional team of 4 ML engineers to build end-to-end recommendation system, increasing user engagement by 35% and revenue by $2.3M annually

• Implemented MLOps pipeline with Docker, Kubernetes, and AWS SageMaker, reducing model deployment time from 2 weeks to 2 hours

• Optimized deep learning models through feature engineering and hyperparameter tuning, improving accuracy by 18% while reducing inference costs by 40%

• Built real-time fraud detection system using ensemble methods (XGBoost, Random Forest), achieving 94% precision and preventing $5M+ in fraudulent transactions

Machine Learning Engineer | DataStart | Jun 2018 - Dec 2019

• Developed personalized recommendation engine using collaborative filtering and deep neural networks, increasing click-through rate by 28%

• Engineered 200+ features from raw user behavioral data using Spark and Python, improving model performance by 22%

• Implemented A/B testing framework for ML model evaluation, enabling data-driven decisions across 8 product teams

• Created automated model monitoring and alerting system, reducing production incidents by 60% and mean time to resolution by 3 hours

• Applied statistical learning techniques including regularization and cross-validation to prevent overfitting in high-dimensional datasets

Data Scientist Intern | FinTech Solutions | Jan 2018 - May 2018

• Built credit risk assessment model using Scikit-learn and statistical learning methods, achieving 15% improvement over existing baseline

• Performed feature selection and dimensionality reduction on 500K+ customer records, identifying top 25 predictive features

EDUCATION

Master of Science in Computer Science | MIT | 2018

Bachelor of Science in Mathematics | UC Berkeley | 2016

CERTIFICATIONS

AWS Certified Machine Learning - Specialty | 2023

Google Cloud Professional Machine Learning Engineer | 2022