MICHAEL ZHANG

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Summary

Machine Learning Engineer with 2 years of experience specializing in deep learning and natural language processing. Strong foundation in Python programming and ML frameworks. Passionate about developing scalable ML solutions and staying current with latest AI developments.

Experience

Machine Learning Engineer
StartupML
June 2022 - Present
San Jose, CA

- Developed and deployed text classification models using BERT, achieving 85% accuracy for customer inquiry categorization
- Implemented data preprocessing pipelines using pandas and scikit-learn, reducing processing time by 40%
- Collaborated with the product team to integrate ML models into the existing web application using Flask

ML Engineering Intern
DataTech Solutions
May 2021 - Aug 2021
Remote

- Built and tested prototype recommendation system using collaborative filtering techniques
- Created data visualization dashboards using Plotly and Streamlit for model performance monitoring
- Participated in code reviews and documentation of ML systems

Projects

Sentiment Analysis Pipeline
Personal Project
2022

- Built end-to-end sentiment analysis system using DistilBERT and Flask API
- Deployed model on AWS EC2 instance with Docker containerization

Image Classification Web App
University Project
2021

- Developed CNN model for classifying hand-written digits using PyTorch
- Created web interface using Streamlit for real-time predictions

Technical Skills

Languages: Python, SQL, JavaScript (Basic)
ML/DL Frameworks: PyTorch, TensorFlow, scikit-learn, Hugging Face Transformers
Tools & Technologies: Git, Docker, AWS (Basic), Flask, FastAPI
Data Processing: pandas, NumPy, Matplotlib, Seaborn
Other: REST APIs, Linux, Jupyter Notebooks

Education

Master of Science in Computer Science
San Jose State University
2020 - 2022
GPA: 3.8/4.0

Bachelor of Science in Mathematics
University of California, Davis
2016 - 2020
GPA: 3.6/4.0

Certifications

Deep Learning Specialization - Coursera (2022)
AWS Machine Learning Specialty - Amazon Web Services (2023)