

Alexandra Chen

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Professional Summary

Passionate AI professional with 8 years of experience in machine learning, natural language processing, and computer vision. Skilled in developing AI-driven solutions to solve complex business problems and enhance operational efficiency. Strong background in data analysis, algorithm development, and model deployment.

Skills

- **Programming Languages:** Python, R, Java, C++
 - **Machine Learning Frameworks:** TensorFlow, PyTorch, Scikit-learn
 - **Natural Language Processing:** NLTK, spaCy, BERT, GPT
 - **Computer Vision:** OpenCV, TensorFlow Object Detection API, YOLO
 - **Deep Learning Architectures:** CNNs, RNNs, Transformer models
 - **Data Science:** Data preprocessing, Feature engineering, Model evaluation
 - **Big Data Technologies:** Apache Spark, Hadoop
 - **Cloud Platforms:** AWS, Microsoft Azure, Google Cloud Platform
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Professional Experience

Lead AI Engineer

AI Innovations, AITown, CA

June 2019 – Present

- Led a team of AI engineers in developing and deploying machine learning models for various applications, including image recognition, natural language understanding, and predictive analytics.
- Designed and implemented deep learning architectures using TensorFlow and PyTorch, achieving state-of-the-art performance on benchmark datasets.
- Collaborated with cross-functional teams to integrate AI solutions into existing products and services, driving innovation and enhancing customer experience.
- Conducted research and experimentation to explore emerging AI technologies and techniques, staying abreast of industry trends and best practices.

Senior Data Scientist

Data Insights LLC, AITown, CA

January 2015 – May 2019

- Developed predictive models for customer churn prediction, demand forecasting, and recommendation systems, leveraging machine learning algorithms and statistical techniques.
- Analyzed large datasets to extract actionable insights and drive data-driven decision-making across the organization.
- Implemented data pipelines and ETL processes using Apache Spark and Hadoop, enabling efficient data processing and analysis at scale.
- Communicated findings and recommendations to stakeholders through clear and compelling data visualizations and presentations.

Machine Learning Engineer

Tech Solutions Co., AITown, CA

August 2012 – December 2014

- Implemented computer vision algorithms for object detection, image segmentation, and facial recognition using OpenCV and deep learning frameworks.
- Developed natural language processing models for sentiment analysis, named entity recognition, and text summarization, applying techniques such as word embeddings and recurrent neural networks.
- Collaborated with software engineers to integrate machine learning components into production systems and applications, ensuring scalability and performance.

Education

Master of Science in Computer Science (Specialization in Artificial Intelligence)

Stanford University, Stanford, CA

Graduated: June 2012

Bachelor of Engineering in Electrical Engineering

University of California, Berkeley, CA

Graduated: May 2010

Certifications

- TensorFlow Developer Certificate
- AWS Certified Machine Learning – Specialty
- Microsoft Certified: Azure AI Engineer Associate

Projects

- **Image Recognition System:** Developed a deep learning-based image recognition system for detecting and classifying objects in satellite imagery, achieving high accuracy and real-time performance.
 - **Chatbot Implementation:** Implemented a conversational AI chatbot using natural language processing techniques, enabling automated customer support and improving response times.
 - **Predictive Maintenance Model:** Built a predictive maintenance model for industrial equipment using machine learning, reducing downtime and maintenance costs for the client.
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Professional Affiliations

- Member, Association for the Advancement of Artificial Intelligence (AAAI)
- Member, Institute of Electrical and Electronics Engineers (IEEE) – Computational Intelligence Society