Dr. Matthew Chen

Senior Data Scientist – AI & Machine Learning

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# Professional Summary

Ph.D. in Computer Science with 7+ years of experience in applied AI, NLP, and deep learning. Successfully led ML model deployments in healthcare and finance sectors. Strong background in model interpretability, productionization, and A/B testing.

# Technical Skills

* Languages: Python, R, SQL
* ML Frameworks: TensorFlow, PyTorch, Scikit-learn, XGBoost
* NLP: SpaCy, BERT, HuggingFace Transformers
* Big Data: Spark, Hadoop, AWS EMR
* Cloud: AWS (S3, SageMaker, Lambda), GCP
* Visualization: Matplotlib, Seaborn, Plotly
* Deployment: Docker, Flask, FastAPI

# Professional Experience

## Senior Data Scientist – AI Innovators Inc. (Jan 2020 – Present)

* Led end-to-end development of predictive models for hospital readmission risks using TensorFlow.
* Developed NLP models for extracting patient information from unstructured clinical notes.
* Collaborated with MLOps engineers to deploy models into AWS SageMaker endpoints.
* Mentored junior data scientists and hosted monthly knowledge sessions.

## Data Scientist – FinAI Analytics (Sep 2016 – Dec 2019)

* Built credit risk models using XGBoost and logistic regression.
* Conducted A/B testing for recommendation system experiments.
* Created real-time fraud detection pipelines with Spark and Kafka.

# Key Projects

### Hospital Readmission Prediction System

Designed and deployed a model to predict 30-day hospital readmissions, improving preventive care targeting by 40%.

### Intelligent Document Parser (NLP)

Developed BERT-based model for extracting structured data from medical reports, reducing manual processing by 70%.

# Education

Ph.D. in Computer Science (Machine Learning) – University of Washington (2016)

B.S. in Mathematics – University of California, Los Angeles (2011)

# Certifications

* AWS Certified Machine Learning – Specialty
* DeepLearning.AI TensorFlow Developer Certificate