# SARAH JOHNSON

## Senior Data Scientist

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## SUMMARY

Results-driven Data Scientist with 6+ years of experience developing Machine Learning models and performing advanced analytics. Expertise in Python, TensorFlow, and SQL with a strong background in statistical analysis and data visualization. PhD in Computer Science with specialization in NLP and Computer Vision.

## SKILLS

**Programming Languages:** Python, R, SQL, Java, JavaScript

**Machine Learning:** TensorFlow, PyTorch, Scikit-learn, NLP, Computer Vision

**Data Analysis:** Pandas, NumPy, Data Science, Statistical Analysis

**Visualization:** Tableau, Power BI, Matplotlib, D3.js

**Big Data:** Hadoop, Spark, AWS, Azure, GCP

**Databases:** SQL, NoSQL, MongoDB, PostgreSQL

**Tools:** Git, Docker, Kubernetes, Jupyter, Agile

## PROFESSIONAL EXPERIENCE

**PRINCIPAL DATA SCIENTIST**
**Analytics Frontiers Inc.**                              *Boston, MA | Jul. 2022 - Present*

- Lead Data Science team of 8 professionals developing Machine Learning solutions for Fortune 500 clients
- Designed and implemented NLP models for sentiment analysis with 92% accuracy
- Architected Computer Vision systems for automated quality control in manufacturing
- Established Data Science best practices and mentored junior team members

**SENIOR DATA SCIENTIST**
**Global AI Solutions**                              *Cambridge, MA | Mar. 2019 - Jun. 2022*

- Developed predictive models using Python, TensorFlow, and PyTorch
- Created Natural Language Processing systems for text classification and entity extraction
- Built ETL pipelines for Data Analysis using SQL and NoSQL databases
- Implemented Cloud-based Machine Learning solutions on AWS and Azure

**DATA SCIENTIST**
**TechData Innovations**                              *Boston, MA | Jan. 2017 - Feb. 2019*

- Built and optimized classification and regression models using Python
- Performed exploratory Data Analysis and feature engineering
- Developed interactive dashboards using JavaScript and D3.js
- Collaborated with Software Engineers to deploy models to production

## EDUCATION

**PhD IN COMPUTER SCIENCE**
**Massachusetts Institute of Technology**                              *Cambridge, MA | 2016*

- Dissertation: "Advanced Machine Learning Techniques for Natural Language Understanding"
- GPA: 3.95/4.0

**MASTER OF SCIENCE IN DATA SCIENCE**
**Harvard University**                              *Cambridge, MA | 2013*

- Thesis: "Computer Vision Applications in Healthcare"
- GPA: 3.9/4.0

**BACHELOR OF SCIENCE IN MATHEMATICS**
**Yale University**                                                      *New Haven, CT | 2011*

- Minor in Computer Science
- GPA: 3.85/4.0

## PROJECTS

**MEDICAL IMAGING ANALYSIS SYSTEM**

- Developed Computer Vision algorithms for early disease detection
- Implemented Deep Learning models using TensorFlow and PyTorch
- Achieved 95% accuracy in classifying medical conditions from X-ray images

**PREDICTIVE MAINTENANCE PLATFORM**

- Built Machine Learning models to predict equipment failures
- Created data pipelines for real-time analysis using SQL and NoSQL databases
- Developed API endpoints for integration with existing systems using Django

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