Sarah Anderson

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Education

Northeastern University — Boston, MA
Bachelor of Science in Data Science — Aug 2023 – May 2027
Relevant Coursework: Machine Learning, Statistical Analysis, Database Systems, Data Visualization, Algorithm Design, Big Data Analytics

GPA: 3.91/4.0

Technical Skills

Languages: Python, R, SQL, Java, JavaScript

Technologies: TensorFlow, PyTorch, Pandas, Scikit-learn, Tableau, Power BI

Tools: Git, Docker, AWS, MongoDB, PostgreSQL

Projects

Predictive Healthcare Analytics Platform | *Python, TensorFlow, MongoDB*

- Developed ML models to predict patient readmission risks with 89% accuracy
- Implemented real-time data processing pipeline using Apache Kafka
- Created interactive dashboards for healthcare metrics visualization

Smart City Traffic Analysis | *R, Python, Tableau*

- Analyzed traffic patterns using IoT sensor data from 50+ intersections
- Built predictive models for traffic flow optimization
- Reduced average commute times by 15% through signal timing recommendations

Financial Market Sentiment Analyzer | *Python, NLP, AWS*

- Created NLP pipeline for real-time social media sentiment analysis
- Implemented cloud-based architecture for scalable processing
- Achieved 85% accuracy in market trend predictions

Research Experience

Undergraduate Research Assistant — Sep 2023 – Present
AI Research Lab, Northeastern University — *Boston, MA*

- Researching applications of deep learning in climate change prediction
- Developing novel neural network architectures for time series forecasting
- Published research paper at International Conference on Machine Learning

Work Experience

Data Science Intern — Jun 2023 – Aug 2023
Google — *Mountain View, CA*

- Developed ML models for user behavior prediction
- Optimized recommendation algorithms improving click-through rates by 12%
- Collaborated with cross-functional teams on A/B testing frameworks

Analytics Intern — May 2022 – Aug 2022
Amazon — *Seattle, WA*

- Analyzed customer purchase patterns using SQL and Python
- Built automated reporting systems for inventory management
- Reduced processing time for daily reports by 40%