Kevin De Bruyne
Senior NLP Engineer
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Professional Summary

Senior NLP Engineer with 6+ years of hands-on experience in building and deploying scalable NLP solutions. Proven expertise in Python, state-of-the-art Transformer models (BERT, GPT), and deep learning frameworks like TensorFlow and PyTorch. Adept at delivering end-to-end NLP systems from data preprocessing to AWS-based deployment. Passionate about solving real-world problems using cutting-edge natural language understanding and generation techniques.

Core Skills

- **Languages:** Python, SQL, Bash
- **NLP/ML:** BERT, GPT, RoBERTa, spaCy, NLTK, Hugging Face Transformers
- **Frameworks:** TensorFlow, PyTorch, Scikit-learn, FastAPI
- **Deployment:** AWS (SageMaker, Lambda, EC2, S3), Docker, REST APIs
- **Data:** Pandas, NumPy, Apache Spark
- **Others:** Git, Agile/Scrum, CI/CD, Linux

Professional Experience

Senior NLP Engineer
TechNova AI Solutions – San Francisco, CA
Aug 2021 – Present

- Led the development of a GPT-based conversational AI chatbot for a fintech client, reducing customer support load by 45%.
- Deployed Transformer models on **AWS SageMaker** with custom inference pipelines and monitoring.
- Built and fine-tuned custom **BERT-based classifiers** for sentiment analysis and topic extraction with 92%+ accuracy.
- Collaborated with cross-functional teams to design RESTful APIs for real-time predictions using **FastAPI**.
- Mentored junior ML engineers and led weekly NLP knowledge-sharing sessions.

Machine Learning Engineer (NLP Focus)
DataBridge Analytics – New York, NY
May 2018 – Jul 2021

- Designed NLP pipelines for document classification and named entity recognition using spaCy and BERT.
- Automated legal document tagging using **PyTorch-based transformers**, improving processing time by 60%.
- Worked with **AWS Lambda and S3** to build serverless ML pipelines for document ingestion and analysis.
- Contributed to internal NLP libraries adopted across 3 projects.

NLP Research Intern
University NLP Lab – Boston, MA
Jun 2017 – May 2018

- Conducted comparative research on LSTM vs Transformer architectures for question answering datasets (SQuAD).
- Co-authored a paper published in **ACL 2018** workshop on low-resource language modeling.

Education

Master of Science in Computer Science
University of Boston – Boston, MA
2016 – 2018

Bachelor of Technology in Information Technology
Tech Institute of Engineering – Los Angeles, CA
2012 – 2016

Certifications

- AWS Certified Machine Learning – Specialty
  DeepLearning.AI Natural Language Processing Specialization (Coursera)

Projects

Resume Ranker with BERT
Built a BERT-powered system to rank resumes based on job descriptions. Integrated with a web dashboard and deployed on AWS.

Multilingual Chatbot
Developed a multi-language customer support chatbot using mBERT and Dialogflow. Supported 5 languages, deployed on AWS Lambda.