

Mira Patel — NLP Engineer

Years of Experience: 5

Master's in Electrical Engineering

MIRA PATEL

NLP ENGINEER

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SUMMARY

Mira Patel is an experienced NLP Engineer with 5 years of expertise in speech data engineering, transformer-based dialogue systems, and leading multilingual AI services across the Asia-Pacific region. With a Master's in Electrical Engineering, she specializes in building scalable, high-performance NLP platforms that support millions of users.

SKILLS

Python, TensorFlow, PyTorch, Transformers, Speech Recognition, NLP, Machine Learning, Data Engineering, AWS, Docker

EXPERIENCE

- Championed the adoption of GPT-4 and reinforcement learning from human feedback for complex customer support scenarios.
- Oversaw architecture design for large-scale NLP services processing 1M daily queries.
- Collaborated cross-functionally with product and data teams to align NLP feature roadmap with business objectives.
- Managed a team of 5 NLP engineers, ensuring timely delivery and code quality through CI/CD pipelines.
- Presented technical findings to executive leadership and secured budget for research initiatives.
- Fine-tuned Transformer-based models for multilingual conversational AI, achieving 15% accuracy improvement over baseline.
- Built end-to-end chatbot pipelines integrating NLP models with dialogue management modules.
- Optimized inference latency via model pruning and TensorRT, reducing response time by 30%.
- Conducted A/B testing and user feedback analysis to iteratively enhance NLU components.
- Mentored junior engineers and conducted internal knowledge-sharing sessions.
- Designed and maintained large-scale speech datasets for Mandarin and English corpora.
- Developed automated pipelines using Python and AWS Lambda for audio preprocessing and feature extraction.
- Implemented real-time error detection algorithms to improve data quality for downstream NLP models.
- Collaborated with linguists to annotate phonetic transcriptions and ensure high annotation fidelity.

EDUCATION

Master of Electrical Engineering (Electrical Engineering)

National University of Singapore, Singapore | 2018