

# Jeevan Parmar

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## TECHNICAL SKILLS

**Languages:** Java, Python, Kotlin, JavaScript, SQL, R, C#

**Frameworks:** LangChain, LangGraph, Llama.ccp, OpenAI, Cohere, HuggingFace, Express.js, Redux, JUnit

**Libraries:** Pytorch, pandas, NumPy, Matplotlib, Selenium, Scikit-learn, Node.js, React.js, OpenCV

**Developer Tools:** Git, Docker, Azure, AWS, Firebase, Jenkins, MySQL, MongoDB, ChromaDB

## EXPERIENCE

### Norwegian University of Science and Technology

Trondheim, Norway

*Social Robotics Programmer - Researcher*

*Jan 2025 - April 2025*

- Developed a conversational agent using Adaptive, Corrective, and Self RAG patterns, boosting accuracy by 80%
- Integrated a Python agent with custom Kotlin Furhat skills for NorwAI's first agent-based robot-connected backend
- Optimized models with llama.ccp, reducing cloud dependency by 15% and achieving sub-8s responses
- Led the full feature lifecycle from ideation to evaluation, aligning with NorwAI's research innovation goals

### Cognite

Austin, Texas

*Software Engineer Co-op*

*May 2024 — Sept 2024*

- Developed Cognite's first industrial agent for the Atlas AI program, integrating tools for troubleshooting workflows
- Boosted doc-parser's keyword extraction accuracy to 90% using advanced embedding and cross-encoding techniques
- Integrated Gemini model into Cognite's doc-parser, enabling GCP users access and enhancing overall functionality
- Implemented the Tail Generation Pattern to generate summaries, optimizing long-term memory recursively

### XCare

Toronto, Ontario

*AI Engineer*

*Oct 2023 — Oct 2024*

- Fine-tuned Dense CNNs and Vision Transformers for X-ray diagnosis, achieving 90% accuracy
- Developed a RAPTOR-AI pipeline, increasing retrieval accuracy to 95%, graded by medical professionals
- Architected a RAG-AI pipeline delivering personalized rehabilitation info with references from medical sources
- Wrote, presented, and published a paper on the tool at the Canadian Undergraduate Conference on AI

### Genellipse Inc.

Toronto, Ontario

*Software Engineer Co-op*

*Sept 2023 — Dec 2023*

- Optimized MongoDB architecture: enabling vector similarity search, enhancing data efficiency across 13 collections
- Boosted data processing accuracy by 75% with Adobe and RAG, while decreasing runtime to sub-3 minutes
- Implemented MNN and RNN Pytorch models, leading to a  $R^2$  of 0.85 and 0.95, respectively

### TD Bank — Technology

Toronto, Ontario

*Automation Quality Engineer Co-op*

*Jan 2023 — April 2023*

- Introduced Recursive and Object-Oriented testing methods using Java Selenium, reducing runtime by 58%
- Implemented 30+ end-to-end test cases on TD's DEFI Environment, successfully closing a 2+ year project
- Deployed automation scripts on Jenkins leading to 20+ bugs found within TD's DEFI Environment

## PROJECTS

**Search Engine** | *Python*

*Sept 2024 — Dec 2024*

**Audio Transcriber** | *Python, HuggingFace, OpenAI*

*Oct 2024 — Oct 2024*

**Nodal Price Forecast Algorithm** | *MongoDB, Python, Scikit-learn, Pytorch*

*Jan 2024 — April 2024*

**Meal Stream** | *MySQL, Firebase, JavaScript, Node.js, React.js, Redux, Express.js*

*Jan 2024 — April 2024*

**IMDB Clone** | *MySQL, JavaScript, Node.js, React.js, Express.js, REST APIs*

*June 2023 — July 2023*

**NBA Fantasy Projection Project** | *MySQL, Python, HTML/CSS, Scikit-learn*

*June 2022 — Aug 2022*

## EDUCATION

### University of Waterloo

Waterloo, Ontario

*Honours Co-op BAsC Management Engineering, Artificial Intelligence Option*

*Sept 2021 — Present*