# Parth Patel

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## SUMMARY

Data-driven, analytical Data Scientist with extensive experience in Artificial Intelligence (AI). Builds, trains, and deploy machine learning models. Provides in-depth analysis, discovers root causes, and designs long-term solutions. Expertise in examining large amounts of data to discover hidden patterns, using data visualization tools. Proven track record of dealing with ambiguity, prioritizing needs, and delivering results in a dynamic environment.

## TECHNICAL SKILLS

Python, C/C++, C#, JavaScript, R, SQL, NoSQL, API Design, LangChain Framework, LlamaIndex, Machine Learning, Supervised/Unsupervised Learning, Regression, Neural Networks, Scikit-learn, Transformers, PyTorch, TensorFlow, Keras, CUDA, Dask, Hadoop, Spark, Hive, Statistical Analysis, AI Agents, Power BI, Tableau, Cloud Infrastructure (AWS, GCP), Linux, CI/CD, Git, Docker, Kubernetes, Automation Anywhere, Agile Methodologies.

## PROFESSIONAL EXPERIENCE

### AI Developer
Ergocentric                                                          **September 2024 – Present , Mississauga**

- Developed AI-driven computer vision models using TensorFlow, PyTorch, and OpenCV improving posture analysis accuracy by 30% and reducing manual effort by 40%.
- Optimized deep learning pipelines with CUDA, TensorRT and model quantization accelerating inference and enabling scalable cloud (AWS, GCP) and edge deployments.
- Enhanced image processing pipelines using OpenCV, Dlib and Mediapipe reducing analysis latency by 50% enabling real-time ergonomic assessments.
- Trained a custom ML model on large datasets to recommend ergonomic chair based on extracted body measurements.

### Software Developer Intern
Bell Canada                                                              **May 2024-August 2024, Toronto**

- Automated network configuration using NetBox API reducing manual workload by 40% and enhancing efficiency.
- Optimized network performance with Pandas and NumPy cutting troubleshooting time by 15% using AI-driven log analysis.
- Implemented RPA workflows reducing process completion time by 30% and minimizing manual errors.
- Developed real-time dashboards and APIs improving data navigation by 50% and enhancing system integration by 25%.

### Research Data Scientist Assistant
Oakville Public Library                                                 **January 2023-May 2024, Oakville**

- Developed an advanced RAG-based chatbot using Hugging Face Transformers, LangChain and PyTorch for intelligent context-aware conversations.
- Optimized large-scale data processing with TensorFlow and Apache Spark reducing processing time by 40% and ensuring low-latency responses.
- Enhanced query efficiency by implementing a Vector Database improving similarity search performance by 40%.
- Deployed scalable microservices with Docker and Kubernetes ensuring 99.9% uptime and high availability.

## EDUCATION

### Bachelor of Science (BSc), Data Science                                              Jan 2022
Sheridan College • Oakville • **GPA 3.73**

## CERTIFICATIONS AND ACHIEVEMENTS

**AWS Cloud Practitioner Certificate**                                              **May 2024**

**Automation Anywhere RPA Essentials (Automation 360)**                              **June 2024**

**NVIDIA-Certified Associate Generative AI LLMs**                              **Currently Pursuing**

**Sheridan's Generator Student Award for Innovation in Research, 2024**              **October 2024**
- For the "Generative AI for Library Frequently Asked Questions" Project.

**Peer Mentor Team Lead**                                                          **2022-2025**
- Promoted to Team Lead from Peer Mentor for strong leadership, managing 20 mentors and facilitating sessions for 50+ students weekly.
- Engaged in leadership and mentoring as a co-curricular role while being a student, balancing academic and team responsibilities effectively.

## PROJECTS

### AI-Powered Call Agent for Taxi Dispatch System | Python
- Developed an AI-powered call agent for a US-based taxi company, automating customer interactions via voice calls. The AI agent efficiently handles ride reservations, answers inquiries, and integrates seamlessly with the taxi dispatch system via REST API. It processes bookings in real-time, ensuring automatic dispatch of vehicles, reducing manual effort, and improving customer experience.

### Credit Card Fraud Detection| Python
- Designed and implemented a fraud detection system in R using ML Algorithms and ANN to classify transactions as genuine or fraudulent. Optimized models with feature engineering and hyperparameter tuning to improve accuracy and reduce false positives.