Anshita Saxena

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With over **6 years** of experience (from ideation to production), I am a self-motivated, results-driven, and diligent professional, recognized with multiple awards at **IBM and Ericsson** for my contributions in machine learning, natural language processing, and big data. I am open to relocating anywhere across Canada.

Experience

Telus   Ontario, Canada
Senior Data Scientist - Generative AI   (Nov 2024 - Present)
Skills/Tech Stack: huggingface, PEFT fine-tuning techniques, python, pytorch, LLMs (claude, gemini, gpt-4o, gpt-neox), linux, cloud, RAG, NLP, Git, GCP, prompt engineering.
Developing and working on LLM applications (RAG applications, function-calling applications), and LLM optimization.

Ericsson Global AI Accelerator Lab   Montreal, Canada
Machine Learning Engineer (Internship)   (Jan 2024 - Apr 2024)
Skills/Tech Stack: LangChain, Ray, fast API, huggingface, PEFT techniques, python, pytorch, LLMs (llama, mistral, openai, gpt-neox), multi-node distributed training, linux, cloud, RAG, NLP, Git, research, kanban
Awarded for best implementation at Ericsson Developer Conference 2024 for creating an end-to-end RAG-based QA LLM application. Fine-tuned and optimized LLMs for production on a distributed multi-node cluster.

Hydroquebec Research Institute (IREQ)   Montreal, Canada
Applied Deep Learning Researcher (Internship)   (May 2023 - Dec 2023)
Skills/Tech Stack: PyTorch, JAX, Keras, multi-distributed gpu training, linux, research, machine learning, deep learning. Led a research project developing a virtual sensor using WaveNet-based deep learning to estimate high-frequency turbine displacements, achieving 89% signal overlap on test data. Implemented models in PyTorch, JAX, and Keras on 4M+ time-series data points.

IBM   Bengaluru, India
Data Scientist/Big Data Engineer   (Apr 2018 - Aug 2022)
Skills/Tech Stack: PyTorch, LLMs(BERT, DistillBert, RoBerta), multi-distributed gpu training, linux, research skills, machine learning, natural language processing, deep learning, Kafka, Spark, linux, S3, Hadoop, Kubernetes, Docker, Databases (SQL, NoSQL), ETL processes, model building and deployment, Cloud (IBM, Azure), IBM Watson, GitHub, Trello, Jira, Confluence, Kanban, Leadership, Teamwork, Adaptability, Positivity, Creative thinking, SpaCy, Nltk.

- Achieved IBM Excellence and Eminence Award 2019, IBM Significant Business Impact Award 2020, IBM Service Excellence Award 2021, and IBM Growth Award 2022.
- Built an end-to-end loan prediction pipeline on IBM Cloud Pak for Data and Palantir in production, using PySpark and containerized ML models, and authored a white paper for senior leadership.
- Delivered PoCs and models in production, including a BERT-based customer support assistant and a revenue-forecasting LSTM model with dashboard batch inferences.
- Developed microservices (containerized REST APIs) for high-volume data ingestion and NoSQL retention, handling 2600 messages/min and millions of daily requests in a multi-datacenter setup. Achieved $2M in cost savings with automated data analysis and real-time tracking in production, using Python and Spark. Led a 21TB data migration on ScyllaDB with PySpark and Scala, ensuring data resilience across a multi-replication cluster.

Education

Sep 2022 – Aug 2024	**University: University of Montreal, Canada (MILA- Montreal Institute of Learning Algorithms)** *Degree*: Masters in Computer Science (Machine Learning), **Grade**: A, **GPA**: 3.98, **Category**: Excellent *Courses*: Machine Learning, Data Science, Deep Learning, Natural Language Processing
Aug 2013 – Jul 2017	**University: Dr. A.P.J. Abdul Kalam Technical University** *Degree*: B.Tech in Computer Science and Engineering, **Percentage**: 82.26/100 [Honours (With Merit)]

Honors And Awards

2024	**Celebrating Excellence Award**: *Organization: Ericsson, Montreal, Canada*
2022, 2023	**Diversity Award (Tuition Fees Scholarship/Exemption)**: *Organization: University of Montreal*
2019, 2020, 2021, 2022	**Awards: IBM Eminence and Excellence Award, IBM Impact on the Business and Significant Achievement, IBM Service Excellence Award, IBM Growth Award, ScyllaDB Innovator Award** *Organizations: IBM India Pvt. Ltd, ScyllaDB (NoSQL Product Company)*
2014, 2015, 2016	**Awards: Academic Excellence Award, Codezilla Coding Award** *Organizations: Meerut Institute of Technology, Meerut Institute of Engineering & Technology, MIET Group*

Certifications

Microsoft Azure Fundamentals: 2021, IBM Certified Big Data Engineer: 2020, Enterprise Design Thinking Practitioner, IBM Watson Knowledge Catalog Essentials, Cognitive Practitioner (IBM), Python for Data Science (IBM), Deep learning specialization (Coursera)
Link: Certification link

Publications

| 2019 | **Optimal Partition Search**
*A. Saxena and **A. Saxena**, "Optimal Partition Search," 2019 IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT), 2019, pp. 1-8, doi: 10.1109/ICECCT.2019.8869459. Link: https://ieeexplore.ieee.org/abstract/document/8869459* |
| 2017 | **DeepCoder: An Approach to Write Programs**
***A. Saxena**, A. Saxena, J. Patel, "DeepCoder: An Approach to Write Programs," 2017 International Conference on Advanced Research and Innovation in Engineering (ICARIE), 2017 International Journal of Engineering and Manufacturing Science (IJEMS), 2017, pp. 9-13, Vol. 7, No. 1, Research India Publications. Link: https://www.ripublication.com/ijems_spl/ijemsv7n1_02.pdf* |