

Yachika Anand

Cambridge, Ontario, Canada

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PROFESSIONAL SUMMARY

Data Analyst with 6+ years of experience transforming complex datasets into actionable insights and scalable data solutions across marketing analytics, web platforms, and AI-driven applications. Experienced across the full data lifecycle, including exploratory analysis, statistical modeling, feature engineering, and production-grade ML pipeline deployment. Proven track record of designing experiments, applying statistical analysis, and developing data products that improve decision-making and drive measurable impact. Strong foundation in research methodologies, including hypothesis testing, model evaluation, and reproducible analysis. Experienced in AI integration, including RAG-based systems and NLP applications, with hands-on experience deploying solutions in cloud environments. Recognized for effectively communicating complex technical concepts and mentoring learners through applied data analytics and research practices.

TECHNICAL SKILLS

- **AI/ML:** Supervised/Unsupervised Learning, NLP, RAG, LangChain, LangGraph, LangSmith, Prompt Engineering, Model Tuning, Model Evaluation (Precision, Recall, F1, ROC-AUC), Cross-Validation, Time Series Forecasting
- **Statistics & Research:** Statistical Inference, Hypothesis Testing, Experimental Design, Regression Analysis, A/B Testing, Model Validation, Reproducible Research
- **Data Engineering:** Python (Pandas, NumPy, Scikit-learn), Vector database, SQL (PostgreSQL, MySQL, MSSQL), ETL/ELT, Feature Engineering, Data Cleaning & Preprocessing, Data Wrangling
- **Cloud and DevOps:** AWS, Azure, Docker, Kubernetes, CI/CD, MLflow, DVC, Git/GitHub, Prometheus
- **Visualization/BI:** Power BI (DAX, KPI Modeling), Tableau, Matplotlib, Seaborn, A/B Testing, Streamlit
- **Software development:** Agile Methodologies, FastAPI, REST APIs, Agile Methodologies

EDUCATION

- M.Eng., Information Technology, Punjab University, India, Jul 2019 – Jun 2021
- B.Eng., Electronics & Communication, DAV Institute, India, Jul 2013 – Apr 2017

CERTIFICATIONS

- Microsoft Certified: Azure fundamentals, Issued March 2026
- Cloud Computing, Big Data & AI – Bridge to IT Careers, Seneca Polytechnic, Jan 2026- April 2026,
- Secure Coding –Career Acc. Program, University of Waterloo – Watspeed, Nov 2024- Jan 2025
- Health Science Technology Training – Ontario Bioscience Innovation Organization, Jun–Jul 2024

PROFESSIONAL EXPERIENCE

Data Solutions Architect

NWLB, USA

Jan 2026- Present

- Designed and implemented end-to-end data solutions, including automated yearly reporting dashboards in Power BI for business intelligence and performance analytics
- Leading the creation of an AI/ML-powered RAG chatbot integrated into the website, leveraging natural language processing to identify resume gaps, recommend skill enhancements, and provide personalized career insights.
- Developed website data retrieval pipelines to enable real-time data access and integration across platforms.

Professor (Data Analytics)
Conestoga College, Canada

Jan 2023 – April 2025

- Led technical instruction in D3.js and Web Analytics, performing live data preprocessing and visualization on real-world WooCommerce and WordPress datasets.
- Developed technical frameworks for data-driven problem solving, overseeing 100+ research projects centered on statistical analysis and reproducible data methodologies.
- Architected curriculum modules for advanced data storytelling, teaching students to transform raw web logs into interactive dashboards for business decision-making.

Analyst & Web Developer
IEC Hamilton, Canada

August 2023 – April 2024

- Engineered Power BI dashboard to track marketing KPIs and performance metrics, streamlining data accessibility and reducing decision-making time.
- Developed an evidence-based website architecture by synthesizing market intelligence and user behavior data into high-performing design requirements.
- Quantified website performance through A/B testing, iteratively optimizing the user journey to achieve a 25% increase in conversion rates.

Professor- Data Analytics
Anovus Institute of Clinical Research, India

October 2019 – Dec 2022

- Guided Clinical research students in the application of SAS for statistical analysis and Excel for data management and visualization.
- Developed and delivered comprehensive lectures and hands-on workshops on data manipulation, statistical analysis, and data visualization.

Data analysis Trainer
Sai Institute of Skill Development, India

2018 – 2019

- Delivered hands-on training in SQL, Python, and Excel for data analysis to 120+ learners.
- Implemented project-based learning approaches, contributing to a 96% graduate placement rate.
- Supported instructional teams in integrating data-driven methods for teaching effectiveness and reporting.

Publication

- Yachika, Kaur, P., & Garg, R. (2021). A survey on key enabling technologies towards 5G. IOP Conference Series: Materials Science and Engineering, 1033, 012011. <https://doi.org/10.1088/1757-899x/1033/1/012011>
- Energy Efficient Resource Allocation using Tabu Search and Gradient Descent Method in 5G Wireless Devices. (2021). Journal of Xidian University, 15(8). <https://doi.org/10.37896/jxu15.8/017>.