RAHUL RAWAT

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OBJECTIVE

Data scientist with 1 year of experience in machine learning, deep learning, data analysis, and cloud computing (AWS), skilled in building predictive models, text analytics, and data processing to solve complex business challenges. Seeking to leverage expertise in AI and statistical modeling to contribute effectively to a data-driven organization.

EXPERIENCE

Team Leader (Data Science) **Jan 2024 – Present**
Lambton College *Mississauga, ON*

- Leading a team as a Technical Leader to develop a FinTech RAG model, integrating LLMs with real-time data retrieval systems for financial analysis. Currently overseeing architecture design, pipeline optimization, and NLP implementation to address complex FinTech challenges. (Project Link)
- Employed SQL for data cleaning, feature engineering, exploratory data analysis (EDA), and advanced querying, including subqueries, to derive insights, standardize data formats, and create analytical summaries. (Project Link)
- Built a stock price prediction model using LSTM neural networks, providing actionable insights for short-term financial forecasting. (Project Link)

Data Science Intern **Jul 2021 – Aug 2021**
Diginique TechLabs *Remote, India*

- Designed machine learning models achieving a 90% average accuracy, surpassing industry benchmarks by 5%.
- Applied data cleaning, preprocessing, and exploratory data analysis (EDA) to optimize model performance.
- Enhanced AI model robustness and scalability through framework integration and performance optimization.

PROJECTS

PDF Conversational Assistant: Developed a Retrieval-Augmented Generation (RAG) PDF assistant using Streamlit, OpenAI's LLM, LangChain, and FAISS. The application dynamically processes PDF text in chunks, enabling context-aware and memory-driven conversational interactions for improved document understanding. (Project Link)

Data Analytics Playlist (GitHub): Curated a comprehensive Data Analytics Playlist on GitHub, featuring multiple projects on Data Visualization, Python, Data Analysis, and machine learning. (Project Link)

Tableau/Power BI Dashboards: Developed interactive dashboards for college projects using Tableau and Power BI, analyzing financial performance, retail sales trends, and operational efficiency.

TECHNICAL SKILLS

Programming: Python (NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, PyTorch), SQL, NoSQL, MongoDB.

Data Analysis: Data mining, Exploratory Data Analysis (EDA), Data Visualization (Power BI, Tableau), PySpark.

Machine Learning: Neural Networks (CNN, RNN, LSTM), Natural Language Processing (NLP), Large Language Models (LLM).

Tools: Git, Jupyter Notebooks, Streamlit, AWS (IAM, S3, SageMaker).

EDUCATION

Postgraduate Certificate in Big Data Analytics, **Lambton College** **Expected 2025**
Coursework: Big Data Tools, Neural Networks and Deep Learning, Big Data Algorithms and Statistics, Big Data Visualization, Natural Language Processing and Social Media Analytics, NoSQL.

Bachelor of Science in Mathematics, **Panjab University** **Jul 2019 – Aug 2022**
Achieved 77% overall with 85% in mathematics courses.

CERTIFICATIONS

- Machine Learning Specialization: [Verify the certification here.](#)

  – Built and trained supervised ML models (linear, logistic regression) and neural networks for classification using NumPy, scikit-learn, and TensorFlow.

  – Developed recommender systems, decision trees, clustering models, and applied anomaly detection and reinforcement learning.

- TensorFlow Developer: [Verify the certification here.](#)

  – Applied best practices for training neural networks with TensorFlow in computer vision, including data augmentation and dropout to prevent overfitting.

  – Built NLP systems with TensorFlow, using RNN, GRU, and LSTM for text processing tasks