

Rahul Rawat

Mississauga, Ontario, L5V 2L9

rahulrawat272chd@gmail.com | (647) 219-1487 | www.linkedin.com/in/rahul148

Dynamic and analytical minded professional with a robust foundation in mathematical concepts essential for constructing machine learning models. Proficient in Python programming language and adept at utilizing frameworks such as TensorFlow and PyTorch to develop cutting-edge solutions. Seeking a challenging role where I can leverage my expertise in data analysis, supervised and unsupervised learning, as well as neural networks and deep learning architectures to drive innovation and contribute to impactful projects in the field of artificial intelligence.

PROJECTS -

- **Attention is all you need**
 - **Successfully replicated the original 2017 research paper** “Attention is All You Need” by Vaswani et al., employing fundamental mathematical concepts using **NumPy** and modern Deep Learning frameworks like **PyTorch**.
- **Deep Audio Classification Model**
 - Developed an **advanced Deep Audio Classification** model using **TensorFlow** and leveraging **CNNs and RNNs** for accurate bird species identification from audio recordings. Utilized **Data Augmentation, Normalization** and **Optimization** techniques to achieve robust performance, applicable to conservation, wildlife surveillance, and citizen science initiatives.
- **Neural Style Transfer**
 - Developed **Neural Style Transfer (NST)** with **TensorFlow** and **VGG19**, balancing content preservation and style transfer. Implemented **cost functions, gradient descent optimization, and TensorFlow** for efficiency. Use case: an artistic **image transformation tool** for applying diverse styles to user-uploaded content images, producing unique compositions.

SKILLS -

- **Tools** – Python, Tableau, Microsoft Office, Jupyter Notebooks, Hadoop, MongoDB, Duck DB, MySQL.
- **Packages** – NumPy, Pandas, Matplotlib, Seaborn, SciPy, os, TensorFlow, PyTorch, Keras, PySpark.
- **Machine/Deep Learning** – Linear/Logistic Regression, Decision Trees, Clustering Algorithms, Anomaly Detections, Neural Networks, Convolutional Networks (CNN), Recurrent Networks (RNN, GRU, LSTM), Attention Models, Neural Style Transfer, Natural Language Processing.

EXPERIENCE-

Lambton College

Team Leader

Mississauga, ON

Jan 2024 – Aug 2025

- Developed a **Google Stock Price Prediction Model** utilizing tools like **Hadoop, Hive, Python, and Spark**, achieving an accuracy rate of **90%**.
- Conducted **high-level data analysis** on a real-life dataset utilizing **HDFS, Hive, and Pig**, extracting meaningful insights and actionable conclusions for decision-making purposes.

G. Rawat Industries

Chandigarh, India

Business Analyst

June 2022 – Nov 2023

- Collected an average of **500 data points per month** related to product availability and transport reliability.
- Assisted in interpreting logistics data, reducing the time required for **analysis by 20%** compared to the **previous quarter**.
- Achieved a **report accuracy rate of 95%** for monthly purchases and sales data, leading to improved decision-making processes.
- Maintained inbound and outbound records with **100% accuracy and completeness**, reducing errors in inventory management by 15% over the year.

Diginique TechLabs

Intern

Remote

Jul 2021 – Aug 2021

- Achieved an average **accuracy of 90% across implemented machine learning models, exceeding the industry benchmark by 5%**.
- **Explored and implemented** three new machine learning frameworks, enhancing the organization's technological capabilities in AI applications.

EDUCATION-

Lambton College

Big Data Analytics

Mississauga, ON

Jan 2024 - Present

- Maintained a consistent **GPA of 3.5** or above across all courses, demonstrating **sustained academic performance**.
- Selected for the **Dean's List** based on outstanding academic performance, maintaining a GPA within the top **10% of students** in the current semester (2024W).

Panjab University

Bachelor's of Science

Chandigarh, India

Apr 2019 – June 2022

- Maintained an overall **academic performance of 77%**, with exceptional performance in **Mathematics courses with an average of 85%**.
- Actively represented undergraduate students in the Science Department, leading initiatives such as organizing student events, addressing student concerns, and fostering communication between students and faculty.

CERTIFICATIONS –

- **Machine Learning Specialization – Coursera**
 - Built and trained supervised models for prediction and binary classification, using **NumPy** and **Scikit-learn**.
 - Built and trained a **neural network** with **TensorFlow** to perform **multi-class classification**.
- **TensorFlow Developer Professional Certificate – Coursera**
 - Handled real-world image data and explored strategies to prevent overfitting using **Augmentation** and **Dropout**.
 - Trained a **Deep Learning** model using **RNNs, GRUs** and **LSTMs** on text repositories.
 - Built a **Natural Language Processing** system using **TensorFlow**.
- **Attention-based Neural Networks – LinkedIn Learning**
 - Trained an Image captioning Neural Network model using **Attention model**.