

Nupur Iyer

AI Researcher

✉ nupur99iyer@gmail.com

☎ +1 (647) 453 1165

in @nupur-iyer

www @nupuriyer_portfolio

Projects

Variational Autoencoder (VAE) & Decoder

Schulich

VAE Anomaly Detection in videos

Project Details: [here](#)

Sentiment Analysis with NLP

study the psychological side of the ChatGPT LLM with conversations targeted towards what the model "inherently knows".

Project Details: [here](#)

NLP Commonality Clustering

Child Protection Information Network

Hierarchical clustering for duplicate identification and removal on the CPIN database

Project Details: [here](#)

Certifications

Machine Learning

Stanford Online

May 2019

Secure and Private AI: A Study in Differential Privacy

Udacity

June 2023

AWS Essentials

Amazon Web Services (AWS)

Dec 2020

Google Cloud Platform

Fundamentals

Google

Dec 2020

For a brief introduction, please scan below



Alternatively, please click [here](#)

Experience

- 2023**
Canada
 - Royal Bank of Canada (RBC)**
Artificial Intelligence Consultant
 - Synthetic Data Engineering**
A Machine Learning Specialist in the field of Responsible AI (oh the possibilities!)
Our work focusses on devising and implementing statistical techniques to learn from data without harming the privacy of individual data points.
- 2021 - 2022**
India
 - Deloitte**
Associate Analyst, AI & Data Ops
 - Machine Learning and Neural Network Design**
Created a Logistic regression system to predict the **severity of insurance claims**, with an **average accuracy of 72%**. Built a **diet recommender system** used to propose diet plans based on the health profile of an individual. Implemented the **Gradient descent algorithm from scratch** for an in-house Deloitte MLOps software that enabled users to effectively build prediction models, recommender systems, and other regression-fueled algorithms
 - SQL Report Development and Quality Assurance Testing**
Developed bank reports for **Co bank (USA)** using SQL Server Management Systems and SQL Reporting Services. Performed **QA for ~150 SQL-based reports** for the client and identified and **corrected 500+ technical flaws and 700+ design inconsistencies**. Mapped **data flows from source to consumption** from 1000+ lines of code. (SQL, XML, Python, etc) for complex client banking systems within Co bank
 - Incident Resolution and Learning & Development Resource Representative**
Developed a roadmap for common incident resolution and debugging techniques for client data ingestion system at **National Australian Bank (NAB)**, effectively **reducing client system incidents from high 200's to low, manageable 30's**. Connected hundreds of practitioners with industry leaders to enhance technical skills through both in-house and external vendor programs

Education

- 2022 - 2023**
Canada
 - Schulich School of Business, YorkU**
Master of Management in Artificial Intelligence
 - Schulich Artificial Intelligence Entrance Award
 - YorkU Excellence Award 2023
 - Mental Health Advocate at Schulich School of Business.
 - Founder and leader of the GBC Wellness social media campaign. Marketing lead for Wellness events at Schulich.
- 2017 - 2020**
India
 - Dr Ambedkar College, Nagpur University**
Bachelor of Computer Science
 - Specialization: Computer Science, Physics, Mathematics and English
 - Batch topper with merit scores in all subjects in the final semester
 - Lead representative of the Physics society
 - Gold medal for presentation on Artificial Intelligence and the future under the Vidarbha University Physics Teachers Association (VUPTA)