

Nupur Iyer

AI Researcher

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Education

Schulich School of Business

Master of Management in Artificial Intelligence

SEP 2022 - AUG 2023, CANADA

Schulich Artificial Intelligence Entrance Award | YorkU Excellence Award 2023 | Founder and leader of the GBC Wellness social media campaign | Marketing lead for Wellness events at Schulich

Dr Ambedkar College, Nagpur University

Bachelor of Science (Computer Science)

JUL 2017 - JUN 2020, INDIA

Batch topper with merit scores in all subjects in the final semester | Lead representative of the Physics society | District & State level gold medal for presentation on AI and the future

Certifications

Intermediate Machine Learning

Andrew Ng, Stanford Online

MAR 2019

Secure and Private AI: A Study in Differential Privacy

Andrew Trask, Udacity

JUN 2023

AWS Essentials

Amazon Web Services (AWS)

DEC 2020

Google Cloud Platform Fundamentals

Google

DEC 2020



Please scan for a video intro!

Professional Experience

Royal Bank of Canada (RBC) / AI Consultant

JAN 2023 - AUG 2023, TORONTO, CANADA

- Devised and implemented statistical techniques to learn from data without harming the privacy of individual data points. Designed and implemented a Django interface for the RBC synthetic data generator service. Restructured user-interface for an in-house fairness service improving explainability and logical flow.

Deloitte / Associate Analyst, AI & Data Ops

JAN 2021 - JUL 2022, BENGALURU, INDIA

- Designed the NN architecture for a multi-class regression system to predict the severity of insurance claims, reducing case time by half. Implemented access and delivery system for user data stored on AWS, Azure and GCP for an in-house Deloitte MLOps software. Built a CoFi recommender system to propose diet plans based on individual health profiles for client applications.
- Developed SQL reports for Co bank (USA) using SQL Server Management Systems and SQL Reporting Services to improve client ingestion system. Performed QA for ~150 SQL-based reports for the client and identified & corrected 500+ technical flaws and 700+ design inconsistencies. Mapped data flows from source to consumption (SQL, XML, Python, etc) for complex client banking systems within Co bank.
- 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 >200 to low 30's. Connected >100 practitioners with industry leaders to enhance technical skills through in-house and external vendor programs.

Featured Projects

OpenAI / Conversations with an AI: a psych eval of ChatGPT

MAY 2023, TORONTO

- A study of the psychological side of the ChatGPT large language model with conversations targeted towards what the model "inherently knows"
- Read more: [here](#)

Child Protection Information Network (CPIN) / NLP Commonality Clustering

APR 2023, TORONTO

- A commonality purge algorithm based on hierarchical clustering for regular duplicate identification and removal from the CPIN database
- Request the full project report: [here](#)

Schulich School of Business / Variational Autoencoder (VAE) & Decoder

AUG 2023, TORONTO

- A probabilistic set-up that allows users to create and evaluate synthetically generated information based on the input dataset used to identify anomalies in a time-series structured data format such as a video.
- Read more about this project: [here](#)

HuggingFace / The Candy Counter project: a study in Object Identification

AUG 2023, TORONTO

- Examination of Hugging Face's DETR object identification model by fine tuning to smaller, custom datasets of different images of candy.
- Read more about this project: [here](#)