

Nupur Iyer

AI Researcher

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Education

Schulich School of Business

Master of Management in Artificial Intelligence

SEP 2022 - AUG 2023, CANADA

Dean's Honour List | 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

Skills

Tableau | Business Intelligence | Data Analytics | Statistical Inference | Responsible AI | Python

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!

A Machine Learning Enthusiast trying to unravel the mysteries of thought and imagination using Artificial Intelligence. I have worked with AI in numerous ways so far and hope to better my understanding of the field by studying ML-rich solutions to real-world problems. Simply put, I wish to reiterate the fact that I am a result of billions of years of evolution, by identifying the requirements of society and how best to cater to them to make our world more livable each day!

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.
- Developed SQL reports for Co bank (USA) using SSMS and SSRS to **optimize client ingestion system performance by 20%**. Identified & corrected **500+ technical flaws and 700+ design inconsistencies** for client reports. Mapped bank data flows from source to consumption for 100% automation of data curation process.
- Developed **incident resolution and debugging roadmap** for client data ingestion system at National Australian Bank (NAB), **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](#)

Amazon / Hedwig's Flight: AI Audio Extension

DEC 2021, INDIA

- A probabilistic set-up that allows users to create and evaluate synthetically generated information based on the inputted audio dataset used to extend shorter audio files and create extended melodies from it.

Listen to it: [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](#)