Nupur Iyer
AI Researcher

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Projects

Variational Autoencoder (VAE) & Decoder
Schulich
VAE Anomaly Detection in videos
Project Details: here

Sentiment Analysis with NLP
Target
Using NLP tokenization (BoW) for sentiment analysis of Target customer reviews
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
Databricks
Dec 2020

For a full list of projects and certifications, 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 a project within Deloitte by working extensively with the numpy package in python to effectively build prediction models, recommender systems, and other regression-fueled algorithms

SQL Report Development and Quality Assurance Testing
Developed bank reports for the client using SQL development with 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

Incident Resolution and Learning & Development Resource Representative
Developed a roadmap for common incident resolution and debugging techniques for client data ingestion system, 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)