Arnab Chakraborty

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Education

Master of Science, Information Systems

Northeastern University, Boston, MA   May 2024
- Volunteered for AI Skunkworks community, conducted AI workshops and researched new advances in data science

Bachelor of Engineering, Computer Engineering

University of Mumbai, Mumbai, India   May 2019

Experience

Senior Business Analyst   Jun 2021 - Sep 2022

Quantiphi, Mumbai, India
- Spearheaded development of an Enterprise-wide Product Availability report on PowerBI identifying monthly revenue leakages of $15 MM for over 25K supermarkets using statistical models
- Reduced annualized OPEX by 12 basis points and time to generate sales order by 60% by semi-automating process for over 200k stores utilizing time series modeling techniques
- Led a team of 10 in engineering a computer vision based palette picking assistance and inventory estimation system across 3 warehouses
- Introduced a Responsible and Ethical AI compliance framework; organized monthly business reviews and technical audits; devised growth strategies for retail sector by collaborating with sales and marketing team

Business Analyst   Jun 2019 - May 2021

Quantiphi, Mumbai, India
- Increased annual revenue by $4 MM and optimized refill rate by 28% for 300K vending machines by providing real-time recommendations based on collaborative filtering and product popularity
- Built a customer churn model with a 75% recall and prescriptive reports on Tableau to retain restaurant business
- Mentored 200+ campus recruits; supervised training schedules, and designed evaluation framework

Academic Projects

The Economics of Happiness, Northeastern University   Nov 2022 - Dec 2022
- Determined impact of 7 key economic indicators on 150 countries happiness score by scraping public datasets, stacking multiple regression models and performing Shap analysis

Profile evaluation for higher studies, Mumbai University   Jan 2019 - Apr 2019
- Advised 50+ undergraduates by evaluating academic profiles and recommending suitable universities and courses/streams for higher education leveraging educational data mining
- Published in 12th International Conference on Recent Development in Engineering Science, Humanities and Management at The International Centre Goa, India

Skills

- Programming: Python, Javascript, Spark, SQL, Java, C++
- ML/DL Frameworks: SKLearn, Tensorflow, Keras, PyTorch, PyCaret, H20.ai, MLlib
- API/Web Development Frameworks: Node.js, Express.js, React, Flask, Django, FastAPI, Streamlit
- Cloud/Data Warehouse: AWS, Azure, GCP, Databricks, Snowflake
- BI Tools: PowerBI, Tableau, Looker
- Business: Client communication, Retail & CPG experience, Market research, Requirements gathering, Project scoping & proposal, Storyboarding, Growth Strategy, Documentation

Key Accomplishments

- 10th AEGIS Graham Bell award: Finalist in category of Innovation in Data Science
- Honored with Kaizen and One for All award by Quantiphi, and Delivery Excellence by CONA Services
- Certified Tableau Desktop Specialist and GCP Associate Cloud Engineer