Sougato Bagchi

sougato97@gmail.com | LinkedIn | GiHub

ML Engineer with a diverse experience in software and healthcare industry. Passionate about Financial Markets.

EDUCATION

M.S in Computer Science, University at Buffalo, NY | GPA: 3.5/4.0

Aug. 2021 – Aug. 2023

B.Tech in Computer Science UEM, Kolkata, India

Aug. 2015 – Apr. 2019

Courses in Financial Markets Research, Algorithmic Trading

Jan 2021

SKILLS

Languages : Python, C, C++, MATLAB, SQL

Skills : Advanced ML/NLP, NoSQL

Others: MS Office(Excel-VBA), Linux(Shell/bash scripting), Git, Stock Research and Investing

EXPERIENCE

Machine Learning Engineer

Cozeva

Cozeva

Dec. 2023 – Present

Seattle, WA

- AI Assistant Development: Led the creation of a proprietary AI assistant using LLM models, tailored to the organization's data ecosystem.
- Database Architecture: Designed and integrated a NoSQL-based vector database for efficient text and image vector embedding retrieval.
- Healthcare Data Analysis: Applying advanced statistical data analysis, created scorecard and reports.

Research Assistant

University at Buffalo

Feb. 2022 – Dec. 2023

Buffalo, NY

- Image processing: Generative Model trained, which can be utilized in surveillance, robot navigation, and other areas. IEEE publication rb.gy/qnja08.
- Human-Robot Interaction: Augmented a simple order-driven robot with capabilities, such as Feedback Learning, NLP, and Audio-Visual Recognition. GitHub rb.gv/isc4x9.
- Robot Navigation: Location and Navigation Error Optimization of autonomous robots. White paper rb.gy/0729ic.
- Biometrics: ML Model trained to recognize human vein patterns on the dorsal side of the palm using Neural Nets. IEEE publication rb.gy/5be87k.
- **Teaching Assistant**: Graded and assisted students on various projects for the course CSE 468/568: Robotics Algorithms.

Machine Learning Engineer, Intern

Jun. 2022 – Aug. 2022

Fremont, CA

- Engineered data pipelines for the robust processing of extensive datasets, specifically focusing on patient medical records to support healthcare analytics.
- Extracted critical features for machine learning applications, pinpointing key variables within complex medical data to enhance predictive modeling.
- Conducted associative rule mining to uncover patterns linking social demographics to healthcare service disparities, providing insights into population health management.

Assistant Systems Engineer

Tata Consultancy Services

May. 2019 - Nov. 2019

Kolkata, India

- Collaborated in a cross-functional team of approximately 50 people actively engaging in **client interfacing** and conducting **requirement analysis**.
- Specialized in order processing and insightful data analytics within the healthcare sector.
- Employed SQL for **database management** and leveraging **MS Excel** for advanced data interpretation and reporting.