

Sougato Bagchi

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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

SKILLS

Certifications	: Financial Markets (with Honors), Issued Jan 2021
Languages	: Python, R, C, C++, MATLAB, SQL
Frameworks	: PyTorch, Tensorflow/Trax, CV2, Keras, SciKitLearn, HuggingFace, OpenAI Whisper, Google TTS
Data Tools	: MySQL, PostgreSQL, MongoDB, JSON, XML, MS Office(Excel-VBA), Tableau
Others	: Git, FastAPI, Apache Spark, Docker, Kubernetes, AWS, Azure, LLMOps

EXPERIENCE

Machine Learning Engineer <i>Cozeva</i>	Dec. 2023 – Present <i>Seattle, WA</i>
<ul style="list-style-type: none">• AI Assistant Development: Led the creation of a proprietary agentic 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 <i>University at Buffalo</i>	Feb. 2022 – Dec. 2023 <i>Buffalo, NY</i>
<ul style="list-style-type: none">• 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.gy/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 <i>Cozeva</i>	Jun. 2022 – Aug. 2022 <i>Fremont, CA</i>
<ul style="list-style-type: none">• 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 <i>Tata Consultancy Services</i>	May. 2019 – Nov. 2019 <i>Kolkata, India</i>
<ul style="list-style-type: none">• 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.	