# Sabeeh Hassany

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## EDUCATION

**Boston College**                                                                                                           *Graduated: May 2024*

Bachelors of Science in Computer Science and Neuroscience | Concentration in Machine Learning

## SKILLS

**Languages** *Proficient* Python(5yrs) · JavaScript(3yrs) · SQL(2yrs) · *Intermediate* Go(1yr) · C#(2yrs) · .NET(2yrs)

**Software** AWS · GCP · Langchain · HuggingFace · OpenAI · PyTorch · TensorFlow · Docker · JupyterNotebook · Azure · React

**Personal** *CliftonStrengths* Restorative · Strategic · Relator · Learner · Analytical *CareerExplorer* Enterprising · Investigative

## EXPERIENCE

**AI Engineering Intern**                                                                                                    *Sep 2024 - Present*

FRENALYTICS                                                                                                                          *New York, NY*
- Built **3** fine-tuned LLM solutions with OpenAI and Llama to optimize data analysis efficiency by **25%** for **250+** admins
- Developed an AI dashboard feature to summarize performance, reducing manual data entry workload by **12.5%**
- Implemented LLM-chaning, hyperparameter tuning, fine-tuning on **5+** LLM models controlling for latency & accuracy

**Software Engineering Resident**                                                                                            *May 2024 - Aug 2024*

HEADSTARTER                                                                                                                          *New York, NY*
- Crafted and deployed **5+** AI apps using RAG, OpenAI, Pinecone, and Stripe, achieving **98%** accuracy with **450+** users
- Developed a support agent with RAG, OpenAI, and Pinecone. handling **1,000+** queries weekly, boosting accuracy by **40%**
- Led a team of 3 fellows using MVC patterns and agile, dedicating **50+** hours to complete **3** projects in 2-week sprints

**Software Engineering Intern**                                                                                              *May 2023 - Aug 2023*

FRENALYTICS                                                                                                                          *New York, NY*
- Built an updated patient information customization interface, improving user experience and efficiency by **15%**
- Deployed **5+** full-stack features, as measured by a **15%** reduction in reported bugs and **20%** increase in satisfaction
- Built a mock API relational database using .NET, C#, SQL, and GitFlow, with a comprehensive endpoints schema

**Machine Learning Club Vice President**                                                                                     *Apr 2023 - May 2024*

BOSTON COLLEGE MACHINE INTELLIGENCE GROUP                                                                                            *Boston, MA*
- Spearheaded workshops on machine learning / AI applications, engaging **80+** members across various fields
- Managed a **$30,000 +** budget for events and initiatives, **3+** industry speakers, student project resources, and more
- Mentored underrepresented STEM students, empowering participation and contributions in technical fields

## PROJECTS

**WatsonAI Multi-Agent System** | Open-source *(~25 hours)* - GitHub Link                                                      *Nov 2024*
- Built a multi-agent system using **IBM WatsonAI,** CrewAI, and Serper API to automate research and speech-writing tasks
- Designed modular agents to perform sequential tasks, enabling automated web research and content generation workflows
- Developed Python-based architecture to process and save outputs, including research findings and keynote speeches

**ML Alpaca Trading Bot** | Open-source *(~30 hours)* - GitHub Link                                                            *Nov 2024*
- Developed a Python-based trading bot using Lumibot, **Alpaca API**, and FinBERT to analyze financial news and inform trades
- Automated sentiment analysis on **500+** financial news articles daily, enhancing informed decision-making processes
- Simulated trades with a backtesting strategy, demonstrating potential portfolio gains over a two-week period

**RAG-Powered AI Assistant** | Open-source *(~30 hours)* - GitHub Link                                                         *Nov 2024*
- Built a RAG-powered AI assistant using **OpenAI** GPT-3.5 and Pinecone to retrieve reviews and generate informed responses
- Created a responsive chat interface with Next.js and Material-UI for seamless real-time interactions via Firebase
- Deployed a semantic search pipeline integrating **500+** scraped professor reviews with database vector embeddings

**Tetris Deep Learning Bot** | Team Project & Open-source *(~40 hours)* - GitHub Link                                          *May 2024*
- Designed a **2 layer 64 unit** ReLu activation network using heuristic learning, achieving **500+** lines and **11,000+** score cleared
- Led a team of 3 on a 2-week sprint using PyGame to make Tetris and a Deep Q-Learning Neural Network for playing
- Made **220+** local commits to shared 5 branch project repo, following industry Git and commit protocols

## ACTIVITES

Medium Blogs - Published 15+ blogs on machine learning, algorithms, philosophy, neurotechnology, and more    *Oct 2020 - Present*
Regional Director - RD for Muslim Student Associations in Massachusetts                                        *Apr 2023 - Present*
Teaching Assistant - TA with the CS Dept. for various foundation CS classes in various levels                 *Oct 2021 - May 2024*