

# SYED SABEEH HASSANY

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## EDUCATION

### Boston College

Boston, MA

Major: BA Computer Science, BS Neuroscience, Conc. Machine Learning; *with Advanced Standing*

Graduated: May 2024

Relevant Coursework: Computer Systems & Organization, Logic and Randomness, Algorithms & Data Structures, Research Practicum in Human Intelligence and AI, Machine Learning, Advanced Machine Learning, Biomedical Image Analysis

## PROJECTS

### WatsonAI Multi Agent

ML Personal Project (20 hrs)

Oct 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 like web research and content generation, enabling automation
- Developed Python-based architecture to process and save outputs, including research findings and keynote speeches

### ML Alpaca Trading Bot

ML Personal Project (25 hrs)

Oct 2024

- Developed a trading bot using Python, Lumibot, Alpaca API, and FinBERT, to analyze financial news and inform trading
- Automated sentiment analysis on 500+ financial news articles daily, enhancing trading decision-making processes
- Simulated trades with a backtesting strategy, demonstrating potential portfolio gains over a two-week period

### RAG Powered AI Assistant

ML Personal Project (30 hrs)

Oct 2024

- Built RAG-powered AI assistant using OpenAI GPT-3.5 and Pinecone to retrieve reviews and generate informed responses
- Created a responsive chat interface using Next.js and Material-UI enabling seamless real-time interactions for questions
- Deployed semantic search pipeline integrating 500+ scraped professor reviews with vector embeddings for database access

## WORK EXPERIENCE

### Frenalytics(Seed Stage Ed-Tech Startup)

New York, NY

LLM Engineer Intern

Oct 2024– Current

- Researching and prototyping fine-tuned LLM for monitoring and summarizing student data using OpenAI and Llama
- Building dashboard feature for performance summaries, specialized by skills and subjects, reducing data entry by 12%
- Implementing scalable LLM pipelines to streamline data flow between student performance, API, and dashboard

### Frenalytics(Seed Stage Ed-Tech Startup)

Remote

Software Engineer Intern

May 2023– Sep 2023

- Applied .NET, C#, SQL, GitFlow, and API Backed Database skills to build a mock relational database with endpoints schema
- Designed an updated patient information customization interface, collaborating with design and engineering team
- Tackled full-stack tasks by deploying new features for platform updates, ensuring seamless integration and user experience

### Boston College Computer Science Department

Boston, MA

Teaching Assistant (TA)

Aug 2022 – May 2024

- Supporting and tutoring 30+ students during office hours for various levels of CS classes during my 3 years of undergrad
- Mentored and supported underrepresented students in STEM and encouraged diverse perspectives in class discussions
- Communicated technical concepts, ensuring accessibility for students from varying academic and cultural backgrounds.

## EXTRACURRICULAR ACTIVITIES

### Boston College Machine Intelligence Group

Chestnut Hill, MA

Vice President

Aug 2022 – May 2024

- Monitored and analyzed machine learning market and research trends to guide project initiatives and align objectives
- Curated a diverse lineup of speakers, professors, professionals, and students to ensure representation and inclusivity
- Collaborated with executive board to manage a \$30K+ budget, overseeing audits, purchase requests, and allocations

### Islamic Center of Boston and Community Center: Inter College Committee

Roxbury, MA

Committee Chair

Feb 2022 – May 2024

- Collaborating with 14+ colleges and off campus partners and organizations on religious and social services offered
- Rebuilding relationships with marginalized populations in Boston+ area and increasing Black/LatinX Muslim representation
- Managing initiatives with 12 members across 4 committees and 4+ inter collegiate events of 100+ attendance

## OTHER

**Technical Skills:** Javascript, C, C#, .NET, SQL, Python, Go, React, Next.js, Bootstrap, Azure, OpenAI, TensorFlow, PyTorch, LangChain,,

**Personal Skills:** *CliftonStrengths:* Restorative, Strategic, Relator, Learner, Analytical; *CarrerExplorerTraits:* Enterprising, Investigative

**Interests:** Reading, Bouldering, Community Service, Language Learning