

Team Panther Bot

Team Member:

Harshal Kamble



Link to access: [Panther Bot](#)



Panther Bot: Elevating Student Program Discovery

Students face fragmented, overwhelming program information.

90% Faster Program Discovery

40% Higher Student Engagement

25% Faster Decision-Making

OUR APPROACH



Understand student queries using **multi-turn memory**



Retrieve **personalized** program information



Guide decisions with **real-time search support**

COMPETITIVE ADVANTAGE



Reduces information overload by 70%



Boosts program application rates



Enhances GSU's tech-forward reputation

Empower students to make smarter academic choices with PantherBot!

Inside Panther Bot: Unveiling Its Cutting-Edge Tech Stack



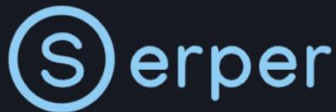
Core Technologies



Streamlit – Web frontend framework for Chat UI



OpenAI GPT-4 Turbo – AI model for intelligent conversation

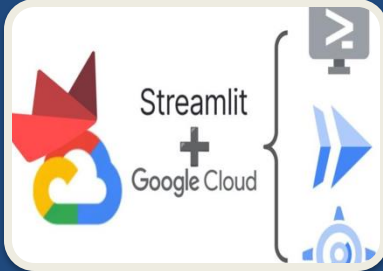


• Serper dev API – Google search fallback integration



Excel Datasets – Structured GSU program data source

☁ Hosting & Infrastructure



Streamlit – Community Cloud (App Hosting)



Session State Management (Seamless Experience)



Multi-Turn Memory System (Contextual Conversations)

Team Behind Panther Bot



Team Structure

Harshal — Project Lead / LLM Engineer

- Developed chatbot logic using GPT-4 Turbo.
- Prepared architecture for future LLM integration via OpenAI API.
- Built an interaction logging and session management system.
- Managed GitHub repository and comprehensive documentation.
- **Alignment:** Core functionality, technical optimization.

Full Stack Developer

- Built a responsive Streamlit UI for the chatbot interface.
- Integrated frontend with backend API services.
- Deployed the chatbot on Streamlit Community Cloud.
- Set up a CI/CD pipeline for smooth deployment.
- **Alignment:** Polished, efficient deployment experience.

UX / Feedback & Testing Lead

- Designed chatbot conversation flow for user engagement.
- Conducted user testing and gathered feedback.
- Analyzed interaction logs for improvement insights.
- Provided UX optimization strategies based on feedback.
- **Alignment:** Intuitive, user-friendly experience.

Collaboration Framework

- Weekly team meetings every Tuesday at 10 AM (Zoom).
- Integration checkpoints every Friday.
- Team consensus on major decisions (Harshal as final decision authority).
- GitHub Wiki for documentation and progress tracking.
- Bi-weekly user feedback reports are analyzed for continuous UX improvements.

Live Demo





Welcome to GSU PantherBot!

What's your name?

Harshal

Enter your name

Continue



Contact Information

Hello Harshal! Please provide your email address.

Email Address

panther1@gmail.com

Enter your email to proceed, so we can reach out to candidates.

Continue



Contact Information

Almost done! Please provide your phone number (optional).

Phone Number (optional)

40472367000

Continue



Program Selection

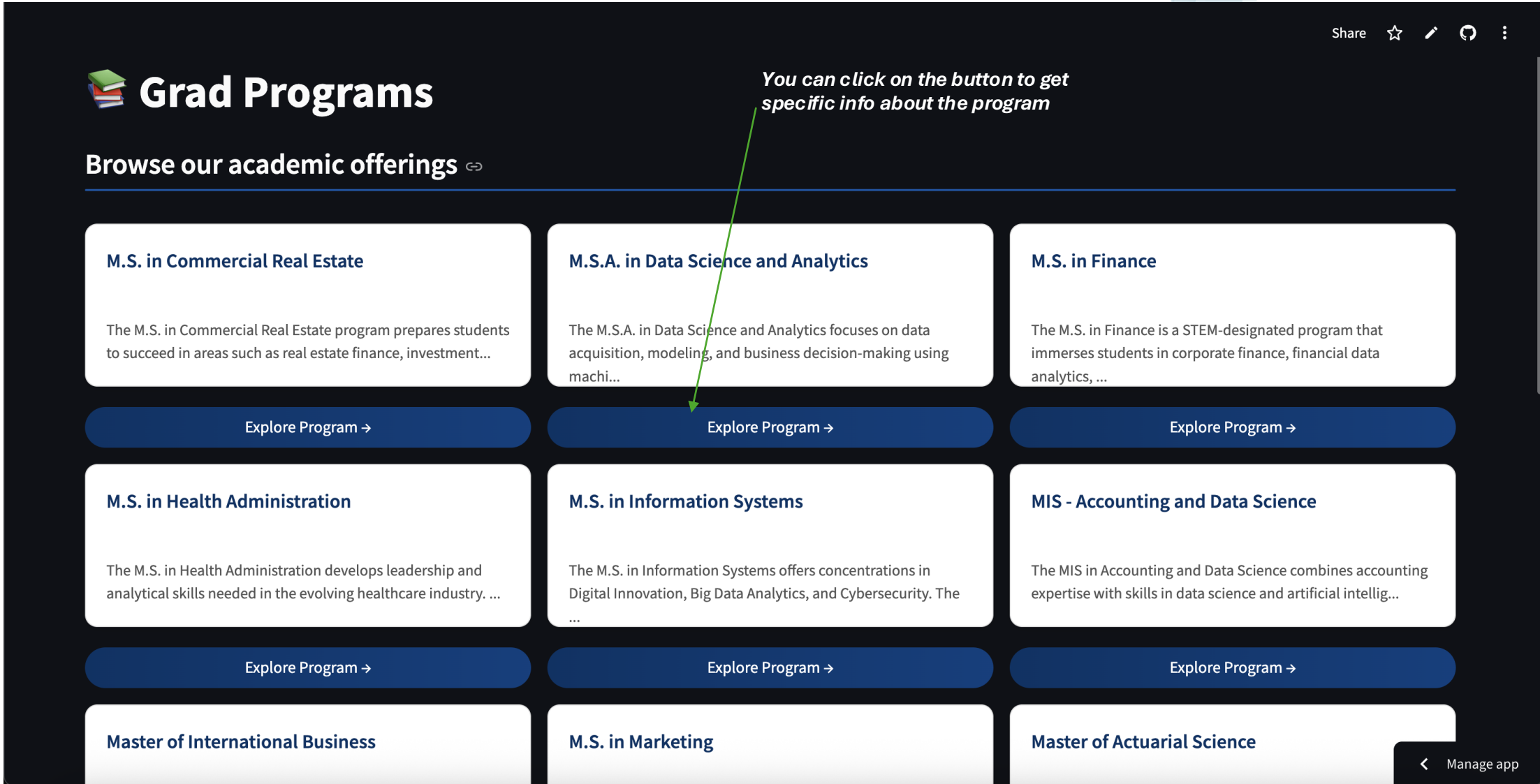
Are you interested in undergraduate or graduate programs?

Undergraduate Programs


Graduate Programs

**Screenshot of
Project Demo**

Screenshot of Project Demo



Screenshot of Project Demo



M.S.A. in Data Science and Analytics

[Program Website](#)

← Back to Programs

You can even go back and select another program

Information provided by the bot

Share ☆ ✎ ↺ ⋮

You can enter Your Text Here

Hi

Hello! How can I assist you with GSU programs today?

Can you tell me more about this course

Certainly! The M.S.A. in Data Science and Analytics at Georgia State University is designed to equip students with the skills needed for data acquisition, modeling, and decision-making in business using advanced technologies like machine learning and big data. The program offers a comprehensive curriculum that spans four semesters, covering essential topics such as programming, machine learning (ML), deep learning (DL), and generative AI. Students also have the opportunity to participate in an optional internship and can choose from dual degree options.

The program is structured to include core courses as well as electives in cutting-edge areas like ML, DL, and AWS technologies. It prepares students for roles such as Data Scientist and Citizen Data Scientist, focusing on real-world applications and ethics-driven data strategies. Faculty members like Yusen Xia, Aaron Baird, and others bring a wealth of knowledge and expertise to the classroom.

Tuition costs range from 15,000to18,000 for in-state students and 34,000to38,000 for out-of-state students. Financial aid inquiries can be directed to rcbfinancialaid@gsu.edu.

For more information or to apply, you can visit their [program page](#) or contact the admissions office via email at rcbgradadmissions@gsu.edu or by phone at 404-413-7849.

Manage app

Thank you

We invite GSU to pilot Panther Bot, integrate it into the university website, gather user feedback, and expand its use to all student programs.