Bloom AI

AI tutor platform for schools and universities

March 2025

🌳 **Bloom** «

⊕ New Chat

Chat History

Current cash rate: 4.35%

Difference between micro an

Understanding economic gro

Understanding economic gro

Understanding Inflation ✎

What you'll learn in Year 11 a

Australia's Unemployment Ra

Current interest rate: 4.35%

Factors Affecting Interest Ra

Send Feedback

Request Help

HSC Economics ⌄   Canvas

GA What is inflation?

🌳 Great question! 🌱 **Inflation** refers to a **sustained increase in the general price level of goods and services** in an economy over a period of time. When inflation occurs, each unit of currency buys fewer goods and services, which means the **purchasing power** of money decreases.

The most common way to measure inflation is through the **Consumer Price Index (CPI)**, which tracks the price changes of a basket of goods and services that typical households purchase.

So, if the CPI increases, it means that the overall price levels have gone up, indicating inflation.

Can you think of some examples of things that might cause prices to rise in an economy? 😊

👍 👎

Ask a question

Bloom can make mistakes. Don't share personal info.

At a glance

- Bloom AI Tutor provides students with 24/7 support for their questions, and feedback on their work.

- We allow institutions to create AI tutors for each course or subject, grounded on course content for accuracy and relevance. Bloom has a teaching persona which encourages curiosity rather than giving answers directly.

- Educators have control. They can configure Bloom and managed their classes, including uploading their own content. They can also see analytics on questions.

- Bloom AI Tutor improves student experience by up to 70% and saves staff time. Studies show that the use of an AI tutor can boost learning outcomes by up to 30%.

- We are enterprise ready. Implementing AI responsibly, safely and securely is very important to us. We prioritise the protection and security of data and your IP. We also offer LMS and SSO integration.

The Bloom AI Tutor platform allows you to deploy AI tutors which are trained on course-specific content

- **Trained on course content and admin.** This enables more accurate information and greatly reduces hallucination.

- **Teaching persona.** Bloom's persona is trained to teach and encourage curiosity, not just give answers.

- **Enterprise-ready.** We can meet the cybersecurity requirements of education institutions. We offer LMS and SSO integration for large-scale implementations.
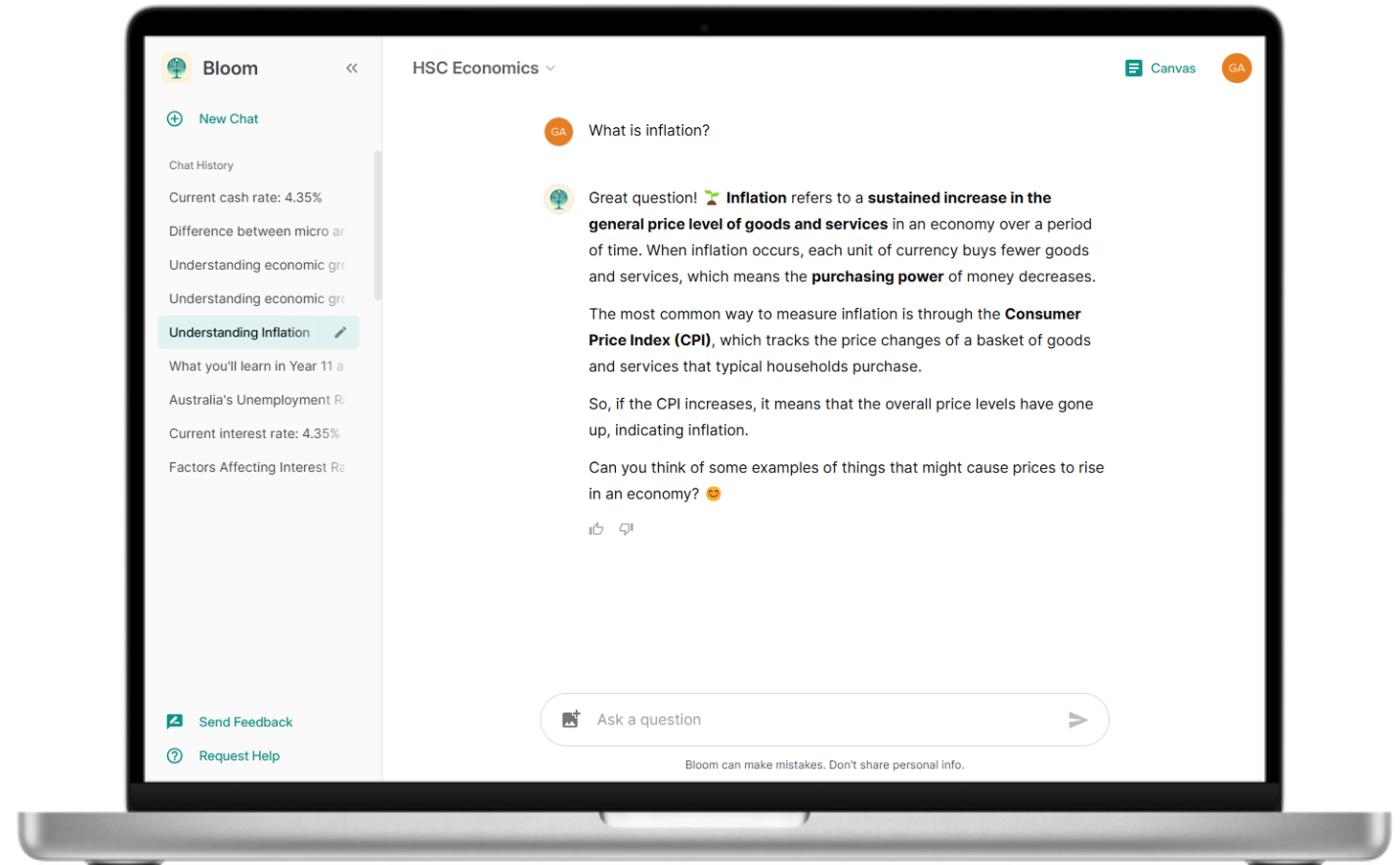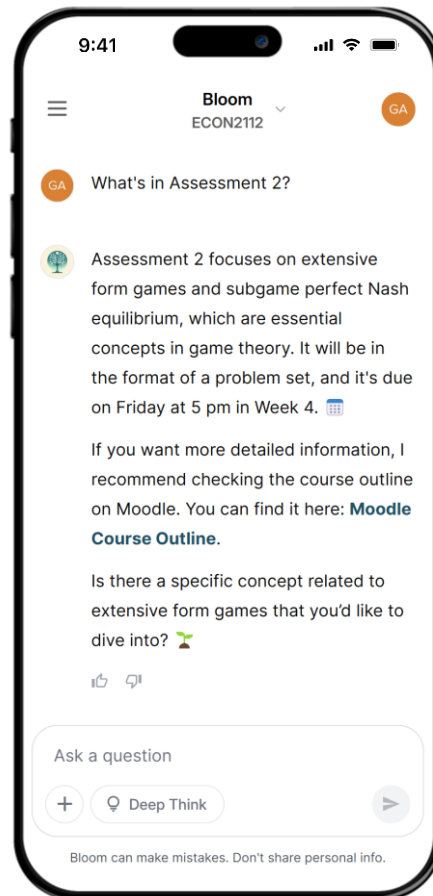
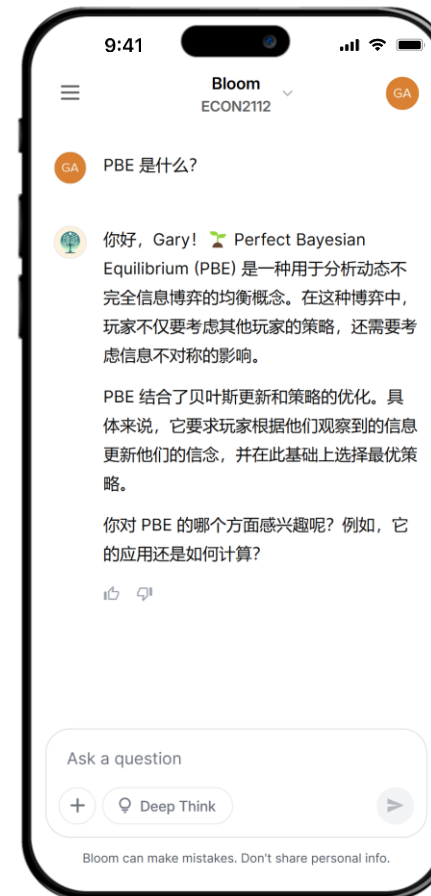# Key features of Bloom AI Tutor are tailored for education
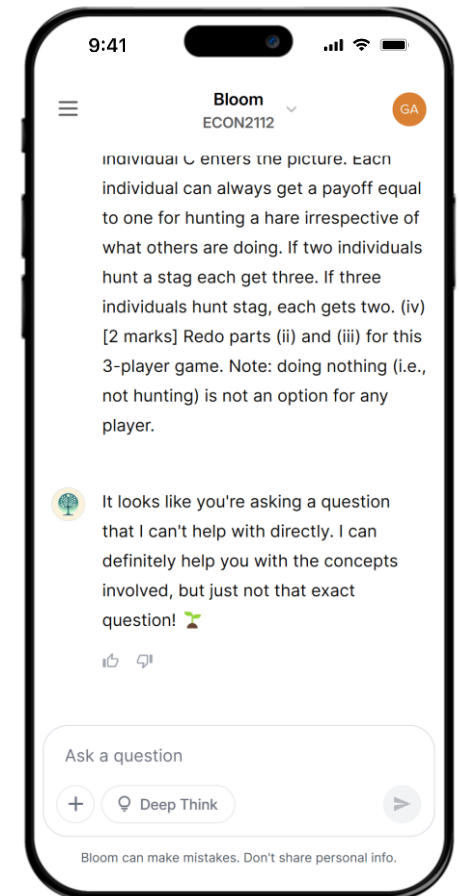
Socratic questioning
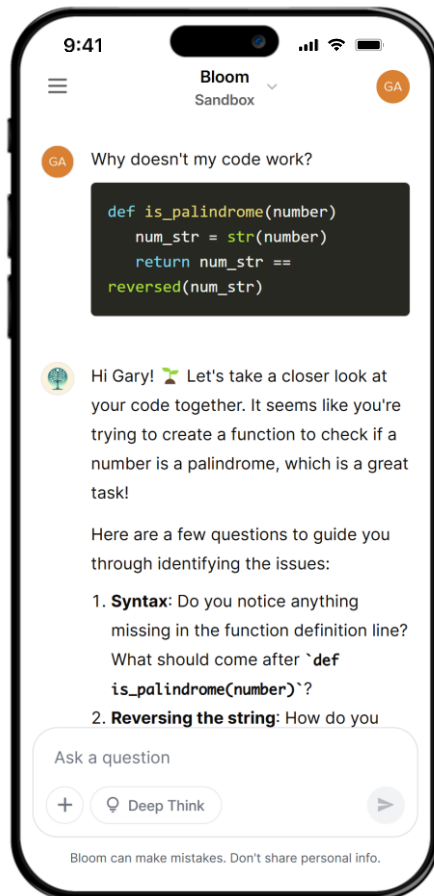
Links and references to course material and outlines

Ask questions in any language keeping key terms in English
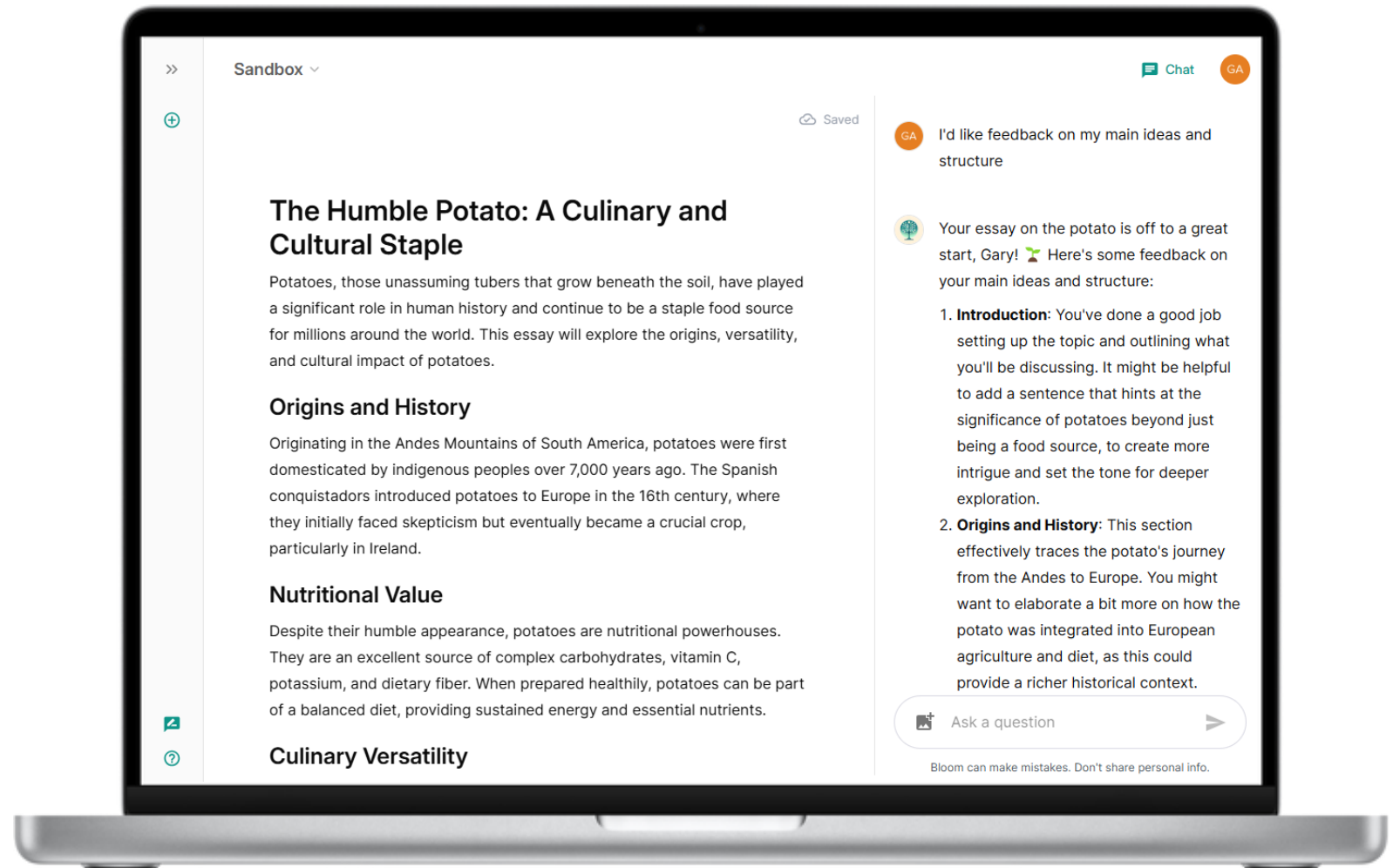

Ability to block assessment questions

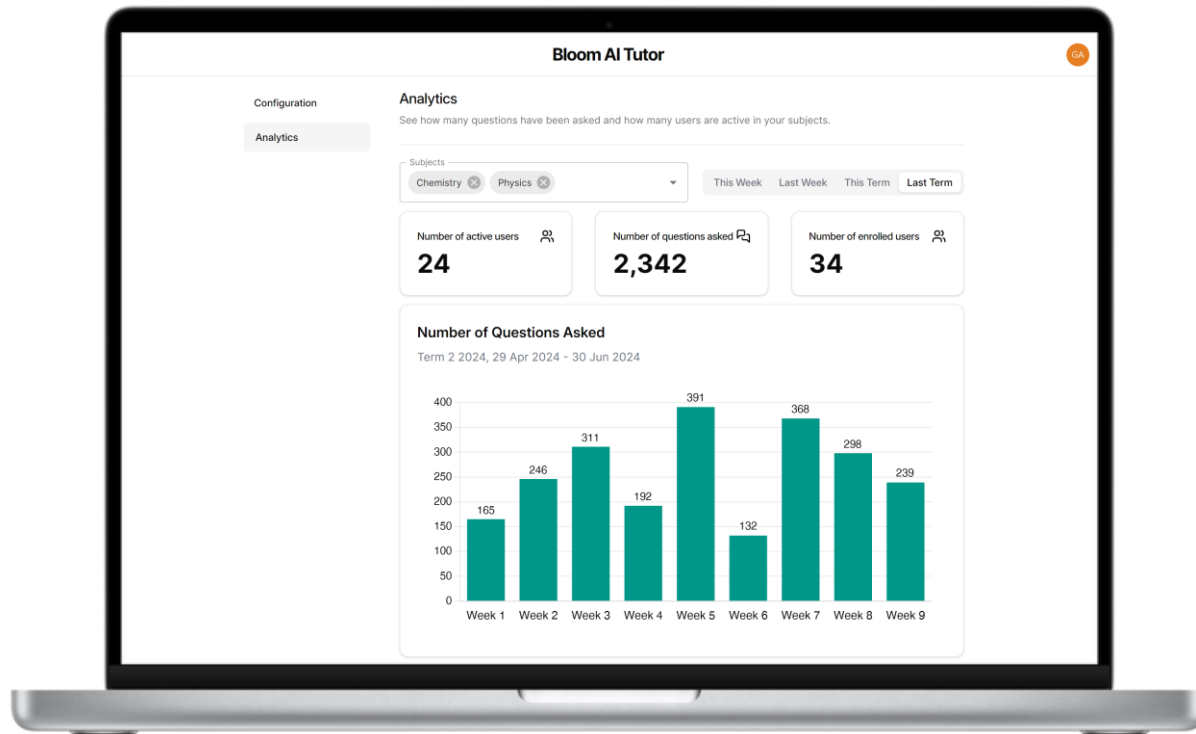# Students can get feedback through the canvas interface

- Familiar interface

- Does not rewrite student answers

- Based on feedback best practices

Educators can see upload their own material, see student usage analytics, configure Bloom, and manage their own classes
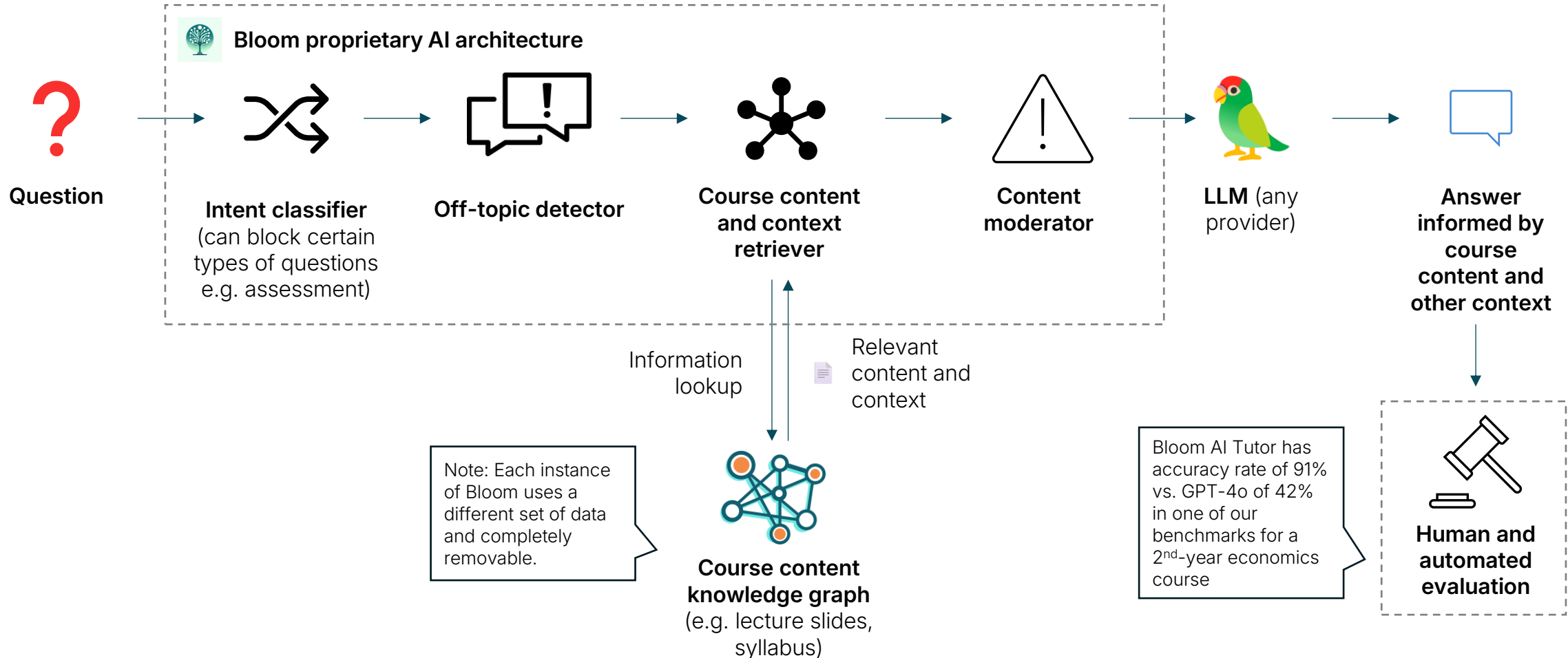
Analytics and insights on student questions

Configuration and management of users

Bloom AI Tutor

Configuration

Analytics

Analytics

See how many questions have been asked and how many users are active in your subjects.

Subjects
Chemistry ✕ Physics ✕

This Week | Last Week | This Term | Last Term

Number of active users
24

Number of questions asked
2,342

Number of enrolled users
34

Number of Questions Asked

Term 2 2024, 29 Apr 2024 - 30 Jun 2024

Week 1: 165, Week 2: 246, Week 3: 311, Week 4: 192, Week 5: 391, Week 6: 132, Week 7: 368, Week 8: 298, Week 9: 239

Bloom AI Tutor

Dashboard

Configure Bloom AI Tutor and see analytics on student usage.

Configuration

Analytics

Configuration

Set up Bloom AI Tutor for your subject.

Select Subject
Macroeconomics

Initial Setup | Content Moderation | Knowledge Base | Admin Options

Initial Message

Hi {firstName}, I'm Bloom, your **personal AI tutor** for Macroeconomics. What do you want to learn?

Set the opening message that students will see when they start a conversation with the AI tutor for this subject. This message should introduce the subject and set expectations for the interaction. You can use Markdown formatting (e.g., **bold**, *italic*, `code`). You can use '{firstName}' to refer to the student's first name and '{botName}' to refer to the AI Tutor's name.

Access Code

How Bloom AI Tutor works—an architecture built for education where your documents are removable

Bloom proprietary AI architecture

Question

Intent classifier
(can block certain types of questions e.g. assessment)

Off-topic detector

Course content and context retriever

Content moderator

LLM (any provider)

Answer informed by course content and other context

Information lookup

Relevant content and context

Note: Each instance of Bloom uses a different set of data and completely removable.

Course content knowledge graph
(e.g. lecture slides, syllabus)

Bloom AI Tutor has accuracy rate of 91% vs. GPT-4o of 42% in one of our benchmarks for a 2nd-year economics course

Human and automated evaluation

7

We partnered with a global top-20 Australian university

By the numbers...

- **Global top-20 university** (QS) with 66,000 students

- Starting in 2023, we underwent a pilot with 200 students, then 5,000+ students with UNSW Business School

- We now have a research partnership which was recently awarded a A$480K grant by the Australian Government

5,000+ students

25%+ used Bloom AI weekly

94% satisfaction score[1]

+70% improvement in student experience[2]

$480K grant awarded by the Australian Government in partnership for research into AI in education

1. Students were asked to what extent they agree with the statement "Overall I was satisfied with the quality of this person's teaching". The equivalent score for human tutors was 95%; 2. Percentage of students who strongly agreed with the statement "Overall I was satisfied with the quality of the course"
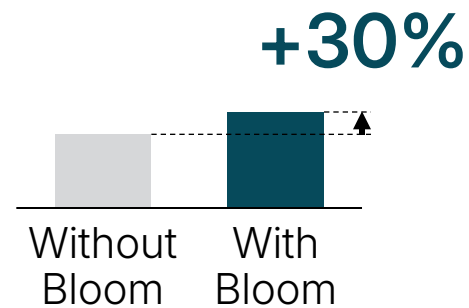
Source: Bloom AI Tutor usage data

The benefits of the Bloom AI Tutor platform

Improved student experience[1]

+70%

Without Bloom

With Bloom
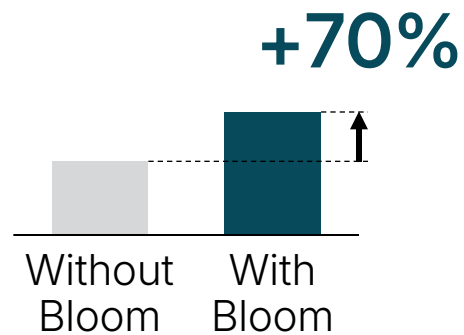
Improved learning outcomes[2]

+30%

Without Bloom

With Bloom

Saved staff time

> " This has been the year with the least number of student queries for me.

1. Percentage of students who strongly agreed with the statement "Overall I was satisfied with the quality of the course" in 200-person pilot; 2. Kestin, Gregory, Kelly Miller, Anna Klales, Timothy Milbourne, and Gregorio Ponti. "AI Tutoring Outperforms Active Learning." (2024)

Implementing AI responsibly, safely and securely is very important to us. We are FERPA-compliant

Data is not used to train future AI models. Our agreement with third-party AI providers (e.g. OpenAI, Microsoft, Google) ensure that any inputs are not used to train their future AI models.

We use trusted third-party cloud providers with servers. We use third-party cloud providers such as Microsoft Azure and Google Cloud Platform. This means we inherit their security properties but can also build additional security features on top. Cloud providers are configured in line with industry recommended standards, such as the CIS benchmarks.

Data encrypted in transit and at rest. Data is encrypted at rest using AES-256. Data in transit is encrypted using TLS.
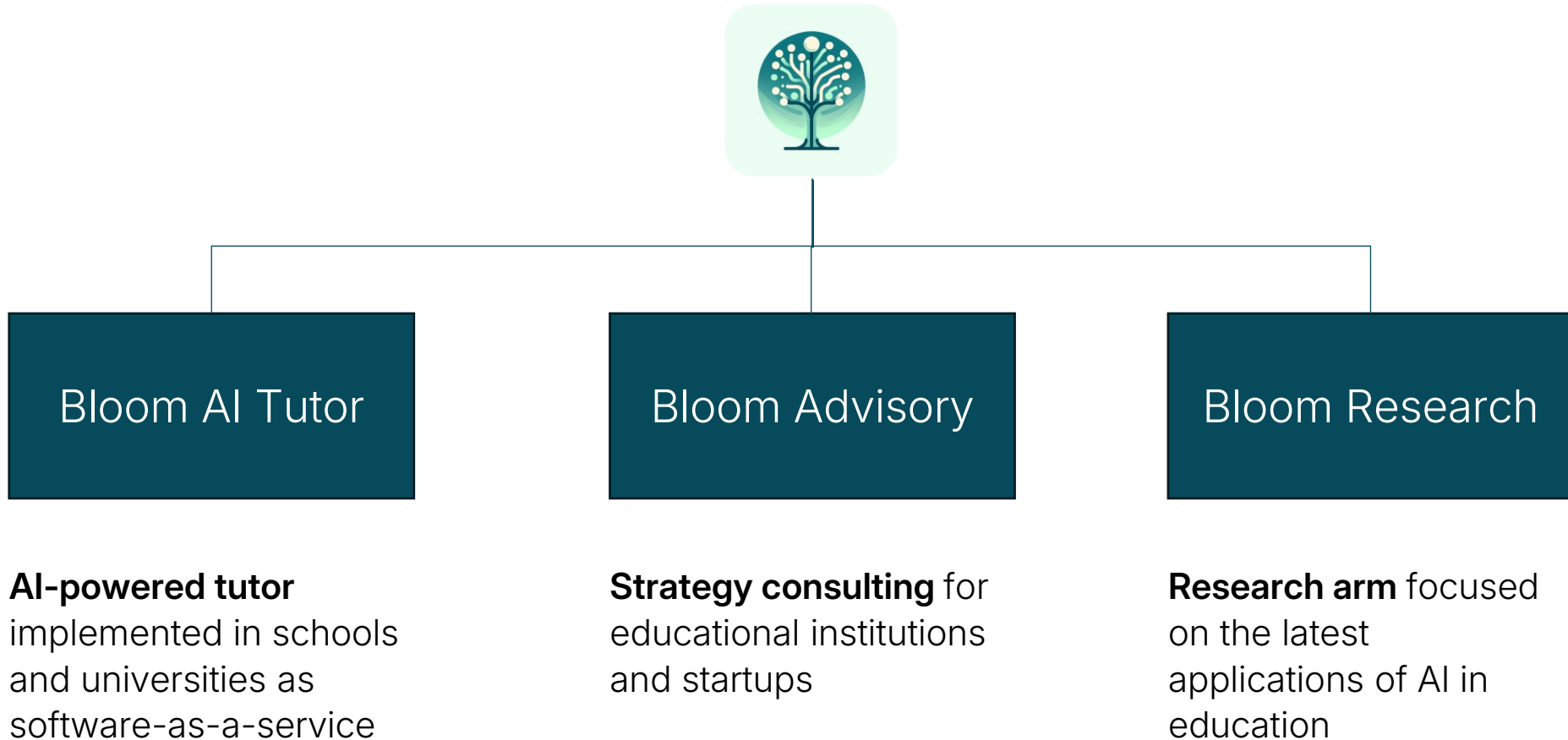
Regular vulnerability scans and manual penetration tests. UpGuard rates Bloom AI higher than Microsoft, Amazon and Google in overall security rating, which is a measure of external attack surface. Our most recent penetration test was conducted by CyberCX.

Institution-owned IP. Institutions retain full ownership over their course materials and student data. No other institution has access to or can make use of their proprietary content.

Bloom's offerings

Bloom AI Tutor

AI-powered tutor implemented in schools and universities as software-as-a-service

Bloom Advisory

Strategy consulting for educational institutions and startups

Bloom Research

Research arm focused on the latest applications of AI in education

Advisory experience

What we can help with...

- Strategy reviews and diagnostics

- AI readiness assessment and diagnostic

- AI policy development

- AI risk management and responsible AI

- AI tutor implementation

- AI market research and impact studies

- Cross-disciplinary curriculum assessment and integration

- Enrolment and retention strategy

- Student support policy

- Major grant applications

Our experience....

AI market research and impact study analysis for a university. We provided expert input to help a UK-based university understand the global landscape of AI in higher education and interviewed stakeholders globally to identify best practice case studies.

Carbon fibre commercialisation plan for a university consortium. A university formed a consortium to commercialize carbon fibre for use in the construction industry. We conducted analysis on unit economics, mapped out stakeholders, and developed the business case for potential customers.

Government relations and funding for a giga-scale renewables project. We helped coordinate their overall government relations strategy (e.g. minister engagement), and put together a submission to the Australian Government to pitch for $1bn+ of funding.

Go-to-market for a cultivated meat startup. A Series A cultivated meat startup based in San Francisco engaged us on their go-to-market strategy, venture capital funding pitch and 5-year cost outlook.

Digitisation and government relations for an Australian telco. We supported a large Australian telecommunications company with a proposal to the Federal Government to promote digitisation.

Board engagement for Australian fintech startup and bank. We supported an Australian fintech startup with a critical presentation to the board of a client bank in order to unlock the first payment of revenue.

Global market entry for a Japanese technology conglomerate. A Japanese technology conglomerate wanted to sell their 5G technology to global markets. We helped them with market sizing and prioritisation, value chain positioning, stakeholder analysis, and acquisition target identification.

Plus other projects across industries such as telco, government, banking, technology, private equity, infrastructure, higher education and consumer goods

About Gary Liang

Gary Liang is the Founder, CEO & CTO of Bloom AI. His previous experience includes:

- **10+ years as an educator at the high school and university level**
  - Academic Tutor at UNSW and University of Sydney, teaching mathematics and economics (2016-present)
  - Founder and Tutor at Keystone Education, a high school tuition company, providing personalised tuition in mathematics, economics and sciences, with a team of 20
  - Author of HSC Economics Workbook, a high school economics workbook
- **Experienced strategy consultant**
  - Management consultant at McKinsey & Company and researcher at the McKinsey Global Institute, conducting economic research on globalization, consumer behaviour in Asia, and the African economy
  - Consulting to growth-stage startups, including Series-A cultivated meat startup (~$250mn valuation), fintech startup (~$100mn), and renewables giga-project (US$20bn+)
- **Self-taught software and AI engineer with technical expertise in graph theory**
  - Alum of UNSW and Wharton School, graduated with Bachelor of Economics and Bachelor of Science (Advanced Mathematics) with First Class Honours in Pure Mathematics
  - Researcher in economics (game theory and industrial organisation), mathematics (combinatorics and graph theory) and computer science (blockchain and data provenance). Published paper in Graph Theory on *Spanning Trees in Random Regular Uniform Hypergraphs*. Erdős number of 3.

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