

# **AI STUDENT OUTREACH PROGRAMME HANDBOOK**

**Version V3.4**

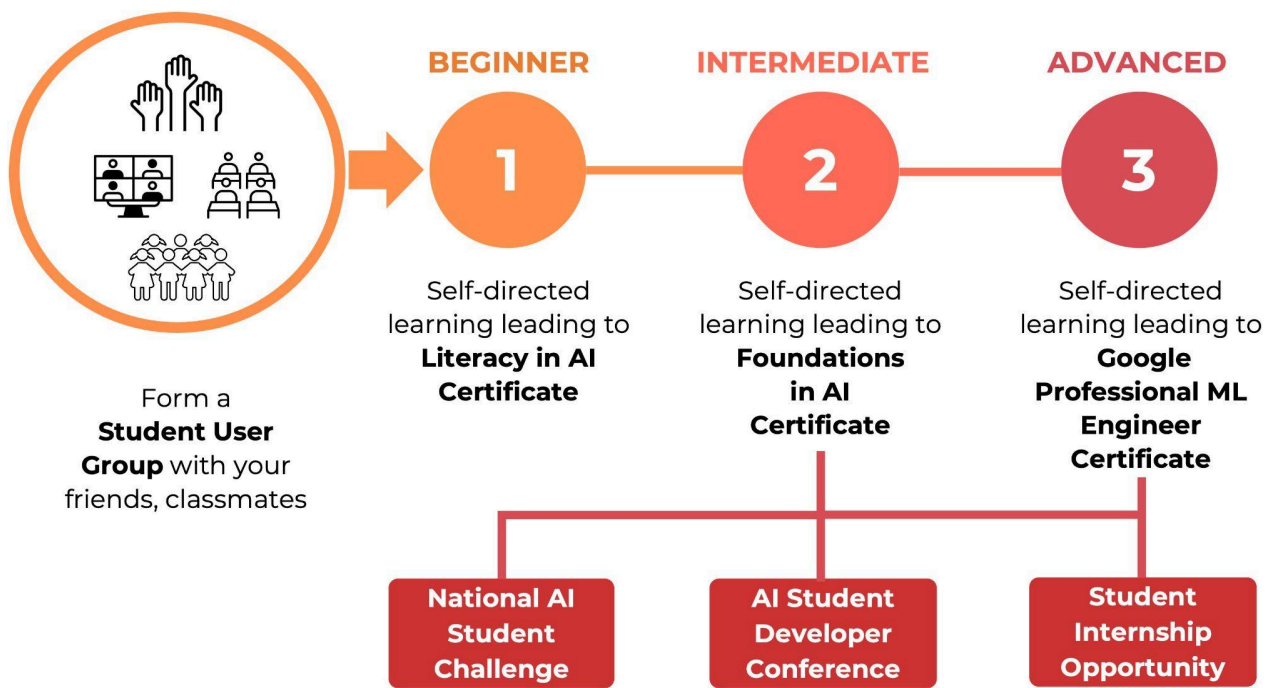
**30 January 2024**

## ABOUT

AI Singapore (AISG)<sup>1</sup> has launched “AI Student Outreach Programme”, which aims to promote AI literacy and proficiency among students from local Secondary Schools, Integrated Programme (IP) Schools, Junior Colleges, Institutes of Technical Education, Polytechnics and Universities. This programme is supported by Singapore’s Ministry of Education (MOE).

## GOALS

AI Student Outreach Programme has 3 levels to suit every student’s AI learning appetite. Each level of completion offers an industry-recognized certification for students to showcase their achievements.



Through the 3 levels, the students will gain:

- Programming skills like Python and/or R;
- Critical thinking skills needed to navigate and adapt to the changing world; and
- Practical experience and knowledge in AI projects.

<sup>1</sup> AI Singapore is a national AI programme launched by the Singapore National Research Foundation (NRF) to anchor deep national capabilities in Artificial Intelligence (AI) thereby creating social and economic impacts, grow the local talent, build an AI ecosystem, and put Singapore on the world map.

## Level 1

Level 1 promotes self-directed learning leading to the Literacy in AI Certification.

### Literacy in AI Certification

Objective	To introduce learners into the world of Machine Learning and explore the topic of ethics in AI
Modules	AI Basics (Machine Learning for Everyone), AI Ethics, Hands-on Practice (Orange)
Estimated duration	5 hours
Learning Resources	<ul style="list-style-type: none"><li>• Self-directed learning (online)</li><li>• Access to AISG Community Groups to support students' learning</li><li>• Access to Ask-Me-Anything sessions to support students' learning, networking and career development</li></ul>
Recommended Pre-Learning	AI for Everyone (AI4E)®
Certificate issued	AI for Industry (AI4I)® – Literacy in AI Certificate

### Eligibility

- Full-time students currently enrolled in local Secondary Schools, IP Schools, Junior Colleges, Institutes of Technical Education, Polytechnics and Universities
- Full-time National Servicemen (NSF)

## Application

- Applications open all year round.
- Form a student user group (SUG) with a minimum of 10 members from the same institution. New members can be added subsequently.
- Join this student-initiated Telegram Group if you need partners to form an SUG or join an existing one: <https://t.me/+hwMBkce1vLs3NWY1>.
- Minimum of 70% of members must be Singapore Citizens (SC) and/or Singapore Permanent Residents (SPR).
- For NSF, form a group of at least 10 NSF, of which at least 70% have received an offer letter for the next level of education (from a university, polytechnic, or ITE). Maximum of 30% of the members may provide Letters of Intent in lieu of the offer letters.
- SUG members to sign up for a LearnAI account here: <https://learn.aisingapore.org>.
- SUG leader to register the SUG here: <https://learn.aisingapore.org/student-user-group-application>. SUG leader and members **MUST** use their school or institution email address. Note: NSF may use their personal email address.
- SUG leader can add student members to the existing SUG by completing the same [registration form](#). Do remember to indicate a (2) at the back of the SUG name, e.g., LearnAIGroup (2). For each additional member's submission, the numbering (2) stays the same.
- SUG leader to accept Terms and Conditions:
  - I declare that the information provided in this application is true and accurate.
  - I declare that I will be responsible for all communications between AI Singapore and SUG.
  - I confirm that there is a minimum of 10 members from the same institution to start the SUG. New members can be added subsequently.
  - I agree that the purpose of SUG is to promote the use of artificial intelligence in their respective fields.
  - I confirm that 70% of the members are Singaporeans and/or Singapore Permanent Residents (SPR).
  - I acknowledge that SUG is encouraged to contribute at least one (1) social media article per year and tag AI Singapore.

- I understand that the personal data collected will be used for the purposes of managing and administering the programme and may be disclosed to National University of Singapore, AI Singapore, supporting Singapore Government bodies of AI Singapore and AI Singapore's partners.
- I shall defend, indemnify, and hold harmless AI Singapore, its subsidiaries, officers, directors, employees, agents, affiliates and partners from and against any claim, demand or legal proceeding, including legal expenses, made by third party or arising from or out of the applicant's breach of the terms and conditions herein.
- AI Singapore reserves the right to make changes to the schedule, content, etc without prior notice.
- I adhere to the code of conduct published on the AI Singapore Community website.
- I acknowledge that I have registered for an account on the LearnAI portal and I am signing up to the above Student User Group.
- I consent to the collection of my personal data by AI Singapore for the purpose of providing the Services to me.
- I declare that the information provided in this application is true and accurate, and I will be the single point of contact for all communications between AI Singapore and the SUG.
- I agree to acknowledge AISG in all SUG-related marketing collaterals and shall seek AI Singapore's prior approval before doing so.
- I have read and agree to the following: Privacy Policy, Terms of Use, Code of Conduct and Legal.
- By participating in the programme, you agree to be featured and consent to the use of your name, comments, photos and/or videos, likeness and biographical information by AI Singapore, in publicity or advertising concerning the programme or otherwise in any medium now known or hereafter devised (including the Internet or other interactive networks) at any place or time without further compensation or right of review, and agree to waive your rights with respect to any such publicity and advertising.
- AI Singapore reserves the right at any time, from time to time, to make changes to the whole or any part of the programme terms and conditions, and/or the services offered on its website, handbook and any other collaterals as it deems appropriate.

## Level 2

Level 2 promotes self-directed learning leading to the Foundations in AI Certification.

### Foundations in AI Certification

Objective	To help learners understand and use AI appropriately and be able to program basic AI and data applications in Python.
Modules	Introduction to Python, Libraries and Data Manipulation, Exploratory Data Analysis, Statistical Thinking, Supervised Learning, Unsupervised Learning, Deep Learning, Other Programming Languages and Tools to Learn, and Data Science and AI in the Real World.
Estimated duration	140 hours
Learning Resources	<ul style="list-style-type: none"> <li>• Self-directed learning (online)</li> <li>• Access to AISG Community Groups to support students' learning.</li> <li>• Access to monthly Ask-Me-Anything sessions to support students' learning, networking and career development.</li> </ul>
Pre-requisite	Literacy in AI Certification (Level 1)
Certificate issued	AI for Industry (AI4I)® – Foundations in AI Certificate

### Eligibility

- Only for SUG members.
- Must have completed Literacy in AI Certification (Level 1).

## Application

- Applications open all year round.
- SUG leader to apply on behalf of the SUG members online here: <https://learn.aisingapore.org/sug-form-2-issue-coupons/>.
- Minimum of 10 SUG members for the first application. New members can be added subsequently.
- SUG leader will receive a notification that the complimentary coupon codes have been distributed to the eligible members. SUG leader to inform eligible members on the availability of the coupon codes on their individual LearnAI accounts. Validity of coupon code is 1 month, starting from the form submission date.
- SUG members will use the 100% discount coupon code to purchase the Foundations in AI course.
- SUG members will get the DataCamp access code in their invoice to upgrade their DataCamp free account to premium account to have access to the content required.
- Skillsfuture credits and PSEA do not apply.
- By participating in the programme, you agree to be featured and consent to the use of your name, comments, photos and/or videos, likeness and biographical information by AI Singapore, in publicity or advertising concerning the programme or otherwise in any medium now known or hereafter devised (including the Internet or other interactive networks) at any place or time without further compensation or right of review, and agree to waive your rights with respect to any such publicity and advertising.

## Benefits

- SUG members will receive complimentary access to the Foundations in AI course.
- **Note: For those SUG members who have paid for the Foundations in AI course and have met the 160-day period requirement, they can proceed to submit a claim request to us. \*160 days - from the date of invoice to the date of Foundations in AI course certificate issuance**

## Claim Process

- Each SUG member must send a request to [learn@aisingapore.org](mailto:learn@aisingapore.org) within **5 days** of the completion date of the Foundations in AI course for reimbursement of S\$105 + prevailing GST.
- A S\$10.50 penalty will be imposed for the unused/incorrect use of a discount coupon code and requesting reimbursement.

- Email title: "Student Outreach Level 2 Claim - [Full Name]\_[Payment Receipt No]\_[Institutional Email]"
- State your Full Name, \*School/Institution's Email Address, Student User Group Name
- Attach the following documents in PDF format:
  - Foundations in AI Certificate
  - AI Singapore Payment Invoice/Receipt sent to your email following your payment. You will find your name, email address and phone number in that invoice/receipt.
  - NUS Invoice (if any)
  - Note: NSF with Letter of Intent will have to attach an offer letter for the next level of education (from a university, polytechnic, or ITE) in order to claim.

\*Students have to use the email addresses issued by their school/institution in their LearnAI accounts. Otherwise, students have to change their email address in the LearnAI account to the email address issued by their school/institution before they claim. AISG will not process any refund with any personal email address, except NSF.

- AI Singapore reserves the right at any time, from time to time, to make changes to the whole or any part of the programme terms and conditions, and/or the services offered on its website, handbook and any other collaterals as it deems appropriate.

## Level 3

AI Student Outreach Programme Level 3 promotes self-directed learning leading to the Google Professional Machine Learning Engineer Certification.

AI Singapore will provide reimbursement for the following expenses:

- One-time exam fee for Google Professional Machine Learning Engineer Certificate
- Google Cloud Skills Boost access for 1 year (Access to all Google Cloud learning paths)
- Qwiklab access (within learning paths)

The reimbursement amounts are as follows:

1. For intakes before 2024: Up to SGD 885.60 (including 8% GST).
2. For intakes starting from 2024: Up to SGD 708.50 (including 9% GST).



## Google Professional Machine Learning Engineer Certification

Objective	<p>Google Professional ML Engineer exam assesses student's ability to:</p> <ul style="list-style-type: none"> <li>• Frame ML problems</li> <li>• Develop ML models</li> <li>• Architect ML solutions</li> <li>• Automate and orchestrate ML pipelines</li> <li>• Design data preparation and processing systems</li> <li>• Monitor, optimize, and maintain ML solutions</li> </ul>
Learning Resources	<ul style="list-style-type: none"> <li>• Google Cloud Skills Boost and Qwiklabs</li> <li>• Google's Learning Resources</li> <li>• AISG Community Groups</li> </ul>
Certification details	<p>Refer to Google's website:  <a href="https://cloud.google.com/certification/machine-learning-engineer">cloud.google.com/certification/machine-learning-engineer</a></p>

## Eligibility

- **Singaporean/PR** who is pursuing a full-time degree, diploma and Nitec/Higher Nitec in Science, Technology, Engineering, and Mathematics (STEM)

- **Others:**

- Singaporean/PR who is pursuing a full-time degree, diploma and Nitec/Higher Nitec in **Non-STEM**
- **Non-Singaporean/Non-PR** who is pursuing a full-time degree, diploma and Nitec/Higher Nitec in STEM and Non-STEM
- Student from a **Secondary School, Integrated Programme School and Junior College**
- **NSF** with an offer letter for the next level of education (from a university, polytechnic or ITE)



Form or join a Student User Group →  
 Complete AI4I® Literacy and Foundations in AI

Refer to:  
[learn.aisingapore.org/student-outreach-programme/](https://learn.aisingapore.org/student-outreach-programme/)

## Application

- Students can apply via [learn.aisingapore.org/student-user-group-application-3](https://learn.aisingapore.org/student-user-group-application-3).
- AI Singapore will provide reimbursement for the following expenses:
  - One-time exam fee for Google Professional Machine Learning Engineer Certificate
  - Google Cloud Skills Boost access for 1 year (Access to all Google Cloud learning paths)
  - Qwiklab access (within learning paths)

The reimbursement amounts are as follows:

1. For intakes before 2024: Up to SGD 885.60 (including 8% GST).
  2. For intakes starting from 2024: Up to SGD 708.50 (including 9% GST).
- Applicants can only reimburse after successfully obtaining the Google Professional Machine Learning Engineer Certificate within 365 days from AI Singapore's email notification of their successful application outcome.
  - Students can submit their applications at any time of the year. Applications will be processed every quarter. Application outcomes will be notified to applicants via email within 1 month after the end of each quarter.
  - Successful applicants will be given 365 days from the application outcome email date to complete the Google Professional Machine Learning Engineer Certification and claim reimbursement as outlined in Point 2.
  - Students must have an active LinkedIn account. Successful applicants will be invited to and must join AISG AI Student Outreach Programme LinkedIn Group.

## Timeline

Quarter	Application Submission Period	Application Outcome Date	365 days to complete the Google certificate and reimburse
Q1	1 January - 31 March	30 April	Successful Application Email Date + 365 days
Q2	1 April - 30 June	31 July	Successful Application Email Date + 365 days
Q3	1 July - 30 September	31 October	Successful Application Email Date + 365 days
Q4	1 October - 31 December	31 January	Successful Application Email Date + 365 days

## Claim Process

- Student will send a request to [learn@aisingapore.org](mailto:learn@aisingapore.org) within 3 months from the issue date of the Google Professional Machine Learning Engineer Certificate
- Email title: "Student Outreach Level 3 Claim – [Your Level 3 Application Number] [Full Name] [Institutional Email]"
- State your Level 3 Application Number, Full Name and Institutional Email Address. Note: NSF may use their personal email address.
- Attach the following documents in PDF format:
  - Google Professional Machine Learning Engineer Certificate
  - Google Professional Machine Learning Engineer Certificate Payment Receipt
  - Google Cloud Skills Boost Subscription Payment Receipt (if applicable)
  - Qwiklabs Subscription Payment Receipt (if applicable)
  - Claim request to be submitted in SGD currency. Claimant to attach supporting document (credit card statement showing the SGD rate paid for the relevant expense claimed). If claimant does not have any supporting document or payment is indicated in other currencies, the actual claimed amount will be converted to SGD internally by AISG.
  - Note: NSF with Letter of Intent will have to attach an offer letter for the next level of education (from a university, polytechnic, or ITE) in order to claim.
- AISG will do the verification within 21 working days
- AISG will invite student to join the AISG AI Student Outreach Programme LinkedIn Group. Student is required to join the group in order to proceed with the claim reimbursement.

## Notes

- By participating in the programme, you agree to be featured and consent to the use of your name, comments, photos and/or videos, likeness and biographical information by AI Singapore, in publicity or advertising concerning the programme or otherwise in any medium now known or hereafter devised (including the Internet or other interactive networks) at any place or time without further compensation or right of review, and agree to waive your rights with respect to any such publicity and advertising.
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## AI Internship Programme (AIIP)

### AI Internship Programme (AIIP)

3 to 6 months paid internship with AISG in collaboration with sponsoring partners where successful applicants will work alongside AISG's AI engineers and AI apprentices on real-world industry projects with deployment deliverables.

Internship opportunities are subjected to the availability and Terms and Conditions of sponsoring partners.

**Visit our website for the latest updates:**

<https://learn.aisingapore.org/student-outreach-programme>.

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## National AI Student Challenge

The annual challenge brings together SUG members and full-time students from local schools to come up with new and innovative uses of Artificial Intelligence. Participation is optional and does not affect the eligibility of students applying for Level 2 and 3 and the AI Internship Program.

Through this event, we hope to encourage:

- Critical and creative thinking skills needed to navigate and adapt to the changing world



- Increase the awareness of current and possible future issues of the use of AI
- Increase applications of AI technology
- Active involvement in shaping their future using AI technology

The winning teams will receive prizes from AI Singapore.

More details will be announced nearer to the date of the Challenge.

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