

**THE UNIVERSITY OF HONG KONG**  
**FACULTY OF ARTS AND SCHOOL OF COMPUTING AND DATA SCIENCE**

**Bachelor of Arts and Bachelor of Engineering in Artificial Intelligence and Data Science**  
**Programme Learning Outcomes**

The aim of this curriculum is to equip students with a strong foundation in artificial intelligence, data science, and humanities, along with advanced communication skills, analytical and reflective thinking, and a capacity for creative problem-solving that effectively harnesses AI and data science. It seeks to develop interdisciplinary knowledge that enables students to address a range of societal issues within a framework of ethical and social inquiry. By combining professional expertise in computer science with rigorous intellectual approaches, the curriculum prepares students to critically engage with complex social, ethical, and cultural challenges, fostering responsible innovation in the use of AI and data science. For completion of the BA, students are required to undertake the Major in Artificial Intelligence and Humanity. For completion of the BEng(AI&DataSc), students are required to undertake the Professional Core in Artificial Intelligence and Data Science.

<b>BA (Major in Artificial Intelligence and Humanity) Programme Level Outcomes</b>	<b>Faculty of Arts BA Programme Learning Outcomes</b>	<b>BEng(AI&amp;DataSc) Programme Learning Outcomes</b>	<b>University Educational Aims</b>
On successful completion of the programme, students should be able to:	On successful completion of an Arts major, students should be able to:	On successful completion of the programme, students should be able to:	Benchmarked against the highest international standards, the 4-year undergraduate curriculum at HKU is designed to enable our students to develop their capabilities in:
<b>BA Programme Learning Outcome 1:</b>  Exhibit proficiency in comprehending and utilizing theories and methodologies	<b>Arts Faculty Intended Learning Outcome 1:</b>  - Demonstrate strong analytical ability through critical engagement with the discourses of the	<b>PLO(a) -</b> apply knowledge of AI and data science technologies to AI and data science applications appropriate to the programme outcomes and to the discipline;	<b>University Education Aim 1:</b>  Pursuit of academic/professional excellence, critical

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from various fields within the humanities and technology. - Evaluate and assess ethical, societal, technological, and theoretical challenges in the realms of humanities, AI and data science, aiming to formulate innovative strategies and solutions for diverse issues.	humanities - Develop an appreciation of the arts as a form of life-long learning	<b>PLO(b)</b> - apply knowledge of AI and data science technologies to the abstraction and conceptualization of AI and data science applications; <b>PLO(c)</b> - analyze an AI/data-centric problem, and identify and define the AI and data science methodologies and technologies appropriate to its solution; <b>PLO(d)</b> - design, implement, and evaluate an AI and data science solution, process, component, or programme to meet desired needs with appropriate consideration for public health and safety, social and environmental considerations; <b>PLO(i)</b> - recognize the need for and an ability to	intellectual inquiry and life-long learning

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		engage in continuing professional development; <b>PLO(j)</b> - use current techniques, skills, and tools necessary for AI and data science practice with an understanding of the limitations	
<b>BA Programme Learning Outcome 2:</b>  - Cultivate interdisciplinary knowledge that enables the evaluation of unfamiliar challenges and applications of AI and data science. - Transform problem-solving by emphasizing technology-driven solutions that are ethically sound. - Utilize creative skills to develop digital platforms and implement tools that address complex societal issues, ensuring responsible use of AI in real-world applications.	<b>Arts Faculty Intended Learning Outcome 2:</b>  - Critically and creatively appraise received ideas and established knowledge; - Demonstrate the ability to articulate their own perspectives and develop informed insights into fundamental human issues	<b>PLO(c)</b> - analyze an AI/data-centric problem, and identify and define the AI and data science methodologies and technologies appropriate to its solution; <b>PLO(j)</b> - use current techniques, skills, and tools necessary for AI and data science practice with an understanding of the limitations	<b>University Education Aim 2:</b>  Tackling novel situations and ill-defined problems

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<b>BA Programme Learning Outcome 3:</b>  - Critically examine and assess various perspectives and methodologies to promote self-reflection, challenging assumptions and recognizing potential biases in the use and design of digital technology. - Foster an appreciation for diversity by engaging with differing viewpoints and approaches to both local and global issues.	<b>Arts Faculty Intended Learning Outcome 3:</b>  - Question their own values and reflect on the assumptions underlying their worldview; - Appreciate difference through engagement with contending viewpoints and beliefs	<b>PLO(f)</b> - demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities; <b>PLO(h)</b> - analyze the local and global impact of AI and data science technology on individuals, organizations, and society	<b>University Education Aim 3:</b>  Critical self-reflection, greater understanding of others, and upholding personal and professional ethics
<b>BA Programme Learning Outcome 4:</b>  - Demonstrate awareness and sensitivity to the ethical implications of cultural diversity in local and global contexts, particularly in relation to AI and data science applications.	<b>Arts Faculty Intended Learning Outcome 4:</b>  - Demonstrate an appreciation of the social, cultural and aesthetic diversity of the human heritage;	<b>PLO(f)</b> - demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities; <b>PLO(g)</b> - communicate effectively with a range of audiences; <b>PLO(h)</b> - analyze the local and global impact of AI and	<b>University Education Aim 4:</b>  Intercultural communication, and global citizenship

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- Develop ethical perspectives on multicultural and cross-cultural issues, recognizing how AI and data science can influence social connections and address societal challenges.	- Develop multicultural and cross-cultural perspectives on human issues	data science technology on individuals, organizations, and society	
<b>BA Programme Learning Outcome 5:</b>  - Exhibit strong communication skills at both conceptual and technical levels across written, oral, visual, and technological literacies. - Cultivate critical and analytical communication abilities to facilitate effective collaboration across disciplines and societies in diverse environments, particularly in the context of AI and data science.	<b>Arts Faculty Intended Learning Outcome 5:</b>  - Demonstrate strong communicative competency at both the concrete and abstract levels; - Develop conversance with various forms of artistic communication	<b>PLO(e)</b> - function effectively on teams to accomplish a common goal; <b>PLO(g)</b> - communicate effectively with a range of audiences	<b>University Education Aim 5:</b>  Communication and collaboration

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<b>BA Programme Learning Outcome 6:</b>  - Demonstrate an understanding and appreciation of the increasing global interconnectedness of technologies, particularly in the realm of AI and data science. - Apply insights into the diversity and complexity of societies to ethically improve the human condition, addressing both local and global challenges through responsible AI and data science practices.	<b>Arts Faculty Intended Learning Outcome 6:</b>  Demonstrate an understanding and appreciation of the interconnectedness of peoples and societies across time	<b>PLO(d)</b> - design, implement, and evaluate an AI and data science solution, process, component, or programme to meet desired needs with appropriate consideration for public health and safety, social and environmental considerations; <b>PLO(e)</b> - function effectively on teams to accomplish a common goal; <b>PLO(h)</b> - analyze the local and global impact of AI and data science technology on individuals, organizations, and society	<b>University Education Aim 6:</b>  Leadership and advocacy for the improvement of the human condition