

THE UNIVERSITY OF HONG KONG
SCHOOL OF COMPUTING AND DATA SCIENCE

Minor in Artificial Intelligence and Data Science [Minor(AI&DataSc)]: Programme Learning Outcomes

(Applicable to students admitted in the academic year 2025-26 and thereafter)

Programme Learning Outcomes

Upon successful completion of the curriculum, students should be able to:

- PLO(a)** – apply knowledge of AI and data science technologies to data science applications and use current techniques, skills, and tools necessary for AI and data science practice with an understanding of the limitations
- PLO(b)** - analyze a data-centric problem, and identify and define the AI and data science methodologies and technologies appropriate to its solution
- PLO(c)** - design, implement, and evaluate a data science solution, process, component, or programme to meet desired needs with appropriate consideration for public health and safety, social and environmental considerations
- PLO(d)** - function effectively on teams to accomplish a common goal in solving AI and data science problems
- PLO(e)** - demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities in dealing with AI and data science problems
- PLO(f)** - communicate effectively with a range of audiences, with the use of appropriate data visualization and presentation tools, in explaining data science processes and solutions

Programme Learning Outcomes (PLOs) mapped against University Education Aims (UEAs)

Curriculum Level Outcomes	University Educational Aims
<p>Upon successful completion of the curriculum, students should be able to:</p> <p>PLO(a) – apply knowledge of AI and data science technologies to data science applications and use current techniques, skills, and tools necessary for AI and data science practice with an understanding of the limitations</p> <p>PLO(b) - analyze a data-centric problem, and identify and define the AI and data science methodologies and technologies appropriate to its solution</p> <p>PLO(c) - design, implement, and evaluate a data science solution, process, component, or programme to meet desired needs with appropriate consideration for public health and safety, social and environmental considerations</p>	<p>University Educational Aim 1.</p> <ul style="list-style-type: none"> • To enable our students to develop their capabilities in pursuit of academic/professional excellence, critical intellectual inquiry and life-long learning
<p>Upon successful completion of the curriculum, students should be able to:</p> <p>PLO(a) – apply knowledge of AI and data science technologies to data science applications and use current techniques, skills, and tools necessary for AI and data science practice with an understanding of the limitations</p> <p>PLO(b) - analyze a data-centric problem, and identify and define the AI and data science methodologies and technologies appropriate to its solution</p>	<p>University Educational Aim 2.</p> <ul style="list-style-type: none"> • To enable our students to develop their capabilities in tackling novel situations and ill-defined problems
<p>Upon successful completion of the curriculum, students should be able to:</p> <p>PLO(e) - demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities in dealing with AI and data science problems</p>	<p>University Educational Aim 3.</p> <ul style="list-style-type: none"> • To enable our students to develop their capabilities in critical self-reflection, greater understanding of others, and upholding personal and professional ethics
<p>Upon successful completion of the curriculum, students should be able to:</p> <p>PLO(e) - demonstrate an understanding of professional, ethical, legal, security and social issues and responsibilities in dealing with AI and data science problems</p>	<p>University Educational Aim 4.</p> <ul style="list-style-type: none"> • To enable our students to develop their capabilities in

<p>PLO(f) - communicate effectively with a range of audiences, with the use of appropriate data visualization and presentation tools, in explaining data science processes and solutions</p>	<p>intercultural communication, and global citizenship</p>
<p>Upon successful completion of the curriculum, students should be able to:</p> <p>PLO(d) - function effectively on teams to accomplish a common goal in solving AI and data science problems</p> <p>PLO(f) - communicate effectively with a range of audiences, with the use of appropriate data visualization and presentation tools, in explaining data science processes and solutions</p>	<p>University Educational Aim 5.</p> <ul style="list-style-type: none"> • To enable our students to develop their capabilities in communication and collaboration
<p>Upon successful completion of the curriculum, students should be able to:</p> <p>PLO(c) - design, implement, and evaluate a data science solution, process, component, or programme to meet desired needs with appropriate consideration for public health and safety, social and environmental considerations</p> <p>PLO(d) - function effectively on teams to accomplish a common goal in solving AI and data science problems</p>	<p>University Educational Aim 6.</p> <ul style="list-style-type: none"> • To enable our students to develop their capabilities in leadership and advocacy for the improvement of the human condition

February 2025