

# LEADERS OF TOMORROW IN TECH

CLOSING THE SKILLS GAP AROUND  
ARTIFICIAL INTELLIGENCE (AI)

*A pilot project brought to you by*

 **AI**inbusiness

 **DTX**



# INTRODUCTION

Katie King - published Author and CEO of AI in Business, and Imago Techmedia - who host the Digital Transformation EXPO, have collaborated with leading corporates and academics to launch an inclusive virtual/online programme for schools. Commencing June 2020, the project aims to train, support and showcase young tech talent at secondary school, closing the skills gap surrounding the impact of artificial intelligence (AI) on the future of work and society.

During its first year, the pilot programme will support schools via a 6-week virtual programme. The sessions will bring together leading data scientists, tech titans, and other guest speakers/facilitators.

Their goals are as follows:

# FIRST YEAR GOALS



To teach students about how AI will reshape all future jobs, from law to football, with exciting case studies and demos.

To fuel their interest in the fast-moving world of technology, and guide them, via mentors, on ways to access it.

To highlight the major societal issues of privacy, ethics, trust and equality.

To showcase diverse, inclusive and exemplary young talent, as part of a *Leaders of Tomorrow Award* at the Digital Transformation EXPO in London on 1st October 2020



# HOW WILL IT WORK?

In this pilot programme, a group of students from St Gregory's Catholic School, a mixed comprehensive secondary school in Tunbridge Wells, Kent, and St. Simon Stock Catholic School will participate. The initial group will include deaf pupils. The project is supported by local MP Greg Clark, who is Chair of Science & Technology Select Committee.

The project team has assembled an impressive line-up of highly qualified speakers, and fresh, engaging content, which fills the gaps in the current national curriculum for Data Science and IT. It will be delivered via six virtual sessions lasting 45-60 minutes each.

The programme is as follows:

# SESSION 1:

## Hosted by:

A brief introduction from the project lead and author Katie King, followed by: Maria Axente, Responsible AI & AI for Good Lead at PwC UK, AI Ethics advisor for APPG AI, tech UK, UNICEF and World Economic Forum

## Session topics:

- Maria's personal journey starting in Romania.
- AI ethics.
- AI for all.
- The new mentality.
- Thriving alongside AI.



# SESSION 2:

## Hosted by:

Ricardo Sueiras, a highly experienced technologist from Amazon Web Services (AWS)

## Session topics:

- Customer stories using AI.
- The importance of design and collaboration skills.
- Getting into the tech industry.



# SESSION 3:

## Hosted by:

Professor Rose Luckin, Professor of Learner Centred Design at the UCL Knowledge Lab, and Director of EDUCATE, a London hub for Educational Technology StartUps



## Session topic:

Using AI to open up the 'black box' of learning to show teachers and students the detail of their progress intellectually, emotionally and socially.

# SESSION 4:

## Hosted by:

Daniel Baker from Microsoft – a Technology Evangelist

## Session topic:

- How machines learn
- Will they take our jobs?
- Image recognition for the visually impaired.
- How jobs will evolve



# SESSION 5:

## Hosted by:

(To be confirmed) Dr. David Leslie, from the Alan Turing Institute. David is the Ethics Theme Lead within the public policy programme

## Session topic:

- Explainable AI.
- AI readiness. Inclusion.
- The big picture.
- The global digital divide

**The  
Alan Turing  
Institute**

# SESSION 6:

## Hosted by:

Christina Leo from Microsoft – a Cloud Solution Architect, spanning Data & AI at Microsoft; Followed by closing comments from project lead and author Katie King, and Harry Chapman, project lead for the Digital Transformation Expo, London

## Session topic:

- Cool demos e.g. AI preventing malnutrition.
- Low code.
- Accessible, inclusive tools





# STUDENT TAKEAWAYS

The pupils will receive awards for this project, which will be presented at the EXPO by (to be confirmed) Sir Nigel Shadbolt – one of the UK’s leading foremost computer scientists, and by Greg Clark, Chair of the Science and Technology Select Committee. One lucky pupil will also win 2 hours of mentoring with these senior leaders later in the year.

As part of the programme, students will also be able to access a wider group of invaluable mentors for future assistance with related matters. These mentors will give up their time when they can to help students in their entry into tech through telephone conversations and discussion over messaging applications. Mentors will be recognised in the Digital Transformation EXPO's line-up and can receive certificates explaining their work.