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Introduction to Watson AI Services

(Hackathon preparation session)

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Description and Rationale

With the potential to change 100% of jobs, AI has been growing in importance and impact this past decade. Understanding the basics of this technology is a critical necessity to navigating many future choices you will have to make. By educating yourself, you can make better decisions about how to integrate AI into how you live, building professional career and work.

This workshop will provide you a unique opportunity for working with the industry experts on AI, building your skills and turning into active players in the technological transformation.

Intended Goals and Outcomes

The workshop aimed at gaining practical knowledge on AI technologies applied to quickly achieve business goals with minimum development efforts.

By engaging in this activity students will receive knowledge and skill set in AI and ethical considerations around AI, understanding of machine learning concept and how it intersects with AI, data, algorithms, and neural networks. This activity will also enable them to understand applications of AI tools including natural interaction, computer vision and autonomous systems.

Workshop participants will also master their skills in cloud capabilities and will get familiar with variety of services provided by cloud platform. Most of those services are available free of charge for testing and creating small prototypes – working solutions. In the course of the workshop the participants will be able to build their own AI application within 1.5 hours, and ask questions to technical expert.

In addition to this, students who will choose to complete “AI Fundamentals” Course on Open P-TECH platform will earn IBM Digital Badge recognized in IT industry.

Intended Audience

The workshop is primarily intended for those who are interested in AI and will participate in the Hackathon. All students with a strong background are welcome. Participants are to fulfill the prerequisites (see Requirements and Resources)

Format and Outline

Time	Activity	Outcome
Any time before the workshop	Self-learning by taking 2 educational modules (AI basic and AI ethics) online	Students will receive a baseline knowledge and skill set in AI and ethical considerations around AI.
15 min	Overview of IBM services How AI can help to solve business challenges	Students will build their knowledge and skills in using IBM cloud services and learn how to build their own AI application.
45 min	Virtual assistant with visual recognition capabilities - practical hands-on session	
30 min	Watson Studio - data science platform overview and demonstration	
Any time after the workshop.	Self-learning by taking 3 online educational modules and online assessment.	In depth understanding of machine learning concept and how it intersects with AI, data, algorithms, and neural networks. IBM Digital Badge recognized in IT industry to strengthen your resume

Requirements and Resources

Prerequisite

To prepare yourself for the workshop and fully benefit of interaction with the leading expert in AI, you need to register on Open P-TECH platform and take first two modules of the course “AI Foundations”:

1. Module 1. What is AI
2. Module 2. AI and You

To take the course, please register on the Open P-TECH platform:

<https://www.ptech.org/open-p-tech/> Choose “AI Foundations” Course and study materials.

To familiarize yourself with the Platform and explore how you may benefit of it please watch: <https://youtu.be/vOxpSiEQPAo>

Workshop

Before the workshop – sign up for IBM cloud account at: <https://cloud.ibm.com/registration>

It is free of charge and will allow you to build your own AI solution following instructor’s guideline.

Post workshop activity

In case if you are interested to receive industry recognized digital badge, the same that IBMers and other professionals are earning on-the-job, you may complete the Course “AI Fundamentals” (the remaining modules on AI) and and the assessment on Open P-TECH platform and apply for the digital badge.

It is a great way to highlight new skills on a resume!

Organizers’ Bios and Contacts

Name: Alexander Gavrin

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Expertise: AI, data processing, NLP, Data Processing, Cloud Development, Microservices architecture

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Brief Bio: IT Architect with 20+ years of IT architecture experience in broad range of competencies (AI, Cloud architecture, Web solutions, high-loaded systems, etc), with deep knowledge in Data and AI technologies.