

Problem Statements

#: Refer to the last page

PS 1:

AI Content Authenticity Challenge

- Description:

Develop an AI-powered solution to distinguish between AI-generated and human-authored text while evaluating the quality and sophistication of AI-generated content. Participants must create nuanced algorithms capable of detecting subtle differences in language fluency, coherence, and contextual understanding, advancing content verification tools for enhanced trust and reliability in an AI-driven information landscape.

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PS 2 :

AI-Enhanced Plant Growth Monitoring and Care System

- Description:

Create an AI/ML-based plant growth monitoring system utilising images for analyzing vital growth factors like plant size, leaf colour, and overall health. Employ machine learning algorithms for real-time image processing, offering insights into plant health and growth. Furthermore, the model should assess plant species and deliver personalized recommendations, including best practices and precautions, empowering farmers and gardeners to optimize crop yield and plant quality.

PS 3 :

Career Navigator: Optimising Talent and Hiring

- Description:

Career Navigator integrates ML-powered career guidance and resume parsing, offering personalised job recommendations based on skills and real-time industry data. It empowers individuals to enhance their careers while enabling HR departments to evaluate top-tier candidates efficiently. Additionally, GenAI or any other system recommends any resources like courses and learning content which

cater to the company's needs.

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PS 4 :

Document Repository and Global Search Platform

- Description:

Develop a project where students can upload their notes in pdf, doc, txt etc type. After uploading, the data should be extracted and stored in the elasticsearch. On top of this, develop a central global search where anyone can search documents by typing any keyword, string, word etc and they can download particular notes.

- Platform

1. Participants can use <https://cloud.elastic.co> which gives a free 14 days trial. They can start elasticsearch instances using a few clicks.

2. Elasticsearch is free software. You can install it locally and develop it on your local instance.

- Hint

1. Use [Ingest Attachment Processor Plugin](#)

OR

2. Try to build using a [workplace search](#) solution.

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#: The final allocation of Problem Statements will be done by the hackathon organising team, please go through the Problem Statements and submit your top 2 preferred Problem Statements in the Google form, posted in the classroom.

