The Question

"What experimental/observational discovery would be the greatest impetus for the further use of ML in astroparticle/particle physics?

This makes us think about all sorts of possible AI/ML applications...

How he won: Using machine learning to understand Trump's 2016 victory

Zhaochen He ✉, John Camobreco & Keith Perkins

Abstract

The meaning of Donald Trump's 2016 victory has been widely debated. Some believe that Trump's success stemmed from the decline of manufacturing and other macroeconomic changes. Others see a political strategy that exploited antagonism towards minorities and immigrants. We put both accounts to the test. Using data from the Quarterly Workforce Indicators (QWI) program, we construct a county-level metric of job decline and pair it with a large survey of political and social opinion. Using both logistic regression and random forest classification, we then estimate the impact of economics, race, and other factors on voter

Politics ?

Trump and the Republican Base: A Machine Learning Approach

By Thomas Ferguson, Jie Chen, and Paul Jorgensen

NOV 7, 2022 | GOVERNMENT & POLITICS

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Some surprising applications of ML…

Trump Is a Machine-Learning Algorithm Gone Wrong

His bizarre behavior suggests he's running low on data.

Malfunction? *Anthony Wallace/AFP/Getty Images*

Identification of Donald Trump's Tweets Using Machine Learning

Publisher: IEEE   Cite This   📄 PDF

Lina Ahmad ; Amjed Al-Mousa   **All Authors**

1 Cites in Paper	**81** Full Text Views

Ⓡ ⌁ © 🗁 🔔

Abstract

Document Sections

I. Introduction

II. Related Work

III. Data Preprocessing & Analysis

Abstract:

The current president of the United States of America, Donald Trump, is well known for his active Twitter account where he shares his personal daily thoughts using the Twitter handle '@realDonaldTrump'. This paper presents the use of classical machine learning techniques in an attempt to analyze Trump's use of words. Afterward, multiple steps of data preprocessing are applied to build a dictionary of definitive words Trump continuously uses, subsequently feeding this dictionary to a number of machine learning models to correctly classify a tweet as written by Trump or not. The accurate result this project has produced proves that Donald Trump has developed a certain pattern of word usage in what he chooses to criticize or shed light upon.

ML in International Relations ?

Putin, Zelensky and the Free Press – A chat with ChatGPT

Femi Olugbile — Jul 14, 2023

Risky Applications ??

UK PM Rishi Sunak Wants AI to Power National Health Service

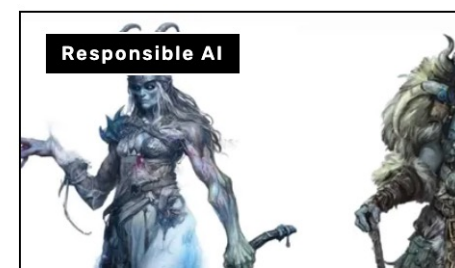Boosts program to tempt AI talent to UK – and not U.S. or China.

Ben Wodecki
November 24, 2022

3 Min Read

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2023
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Events Center
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Where Smart
Tech Meets
Human
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Responsible AI

Thanks to all of you who contributed your answers to 'The Question'..especially the MANY last minute entries that made this decision a bit more of a challenge for us...
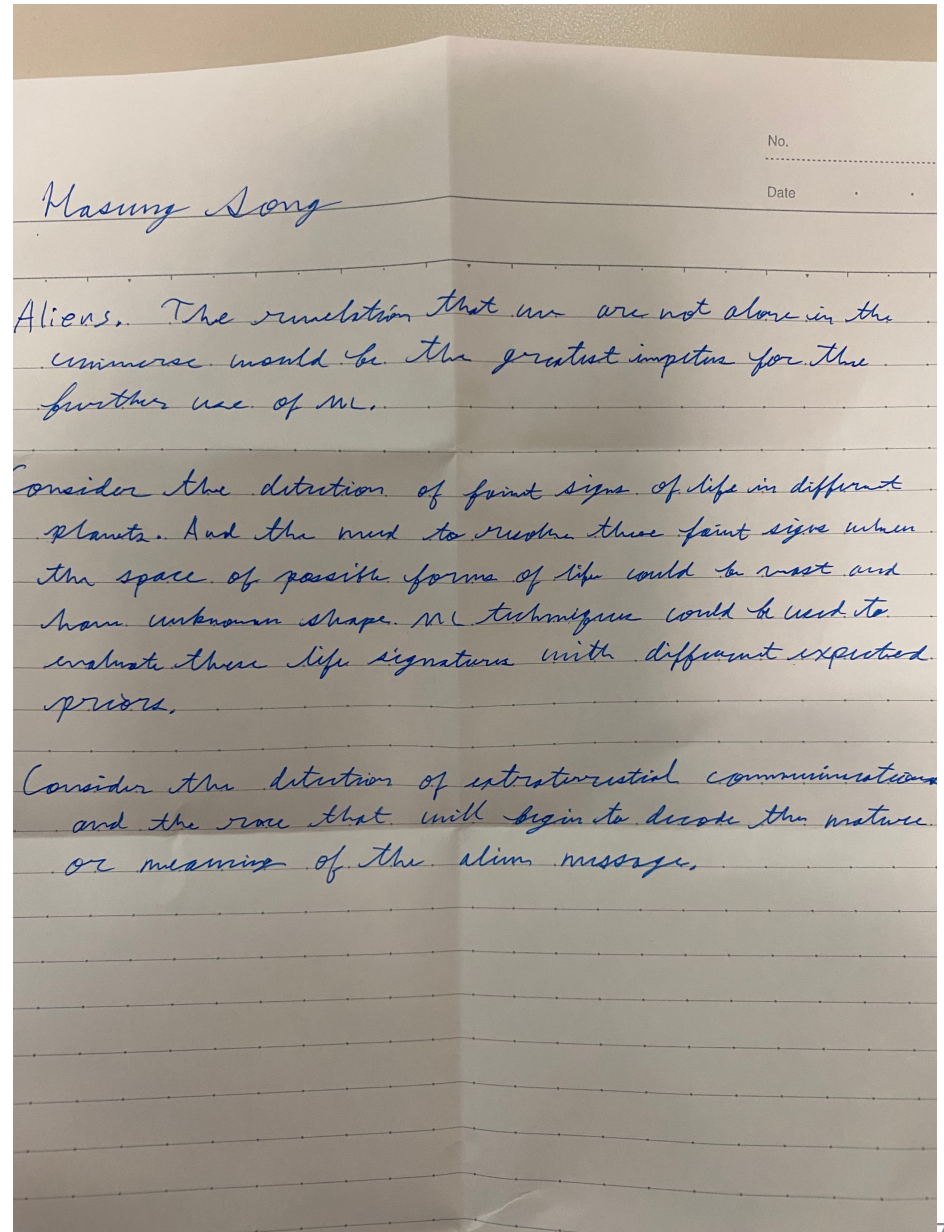
A Panel of Distinguished Experts was pressed into service...

Honorable Mention:

Aliens !

Hasung Song

Hasung Song

Aliens. The revelation that we are not alone in the universe would be the greatest impetus for the further use of ML.

Consider the detection of faint signs of life in different planets. And the need to resolve these faint signs when the space of possible forms of life could be vast and have unknown shape. ML techniques could be used to evaluate these life signatures with different expected priors.

Consider the detection of extraterrestrial communications and the race that will begin to decode the nature or meaning of the alien message.

Honorable Mention 2:

If dark matter is found to be the "mirror matter" of normal matter with four fundamental forces, in which only gravity is shared by normal matter, then all the government will give money to projects that looking for "dark civilization". And we need AI to do it ☺.
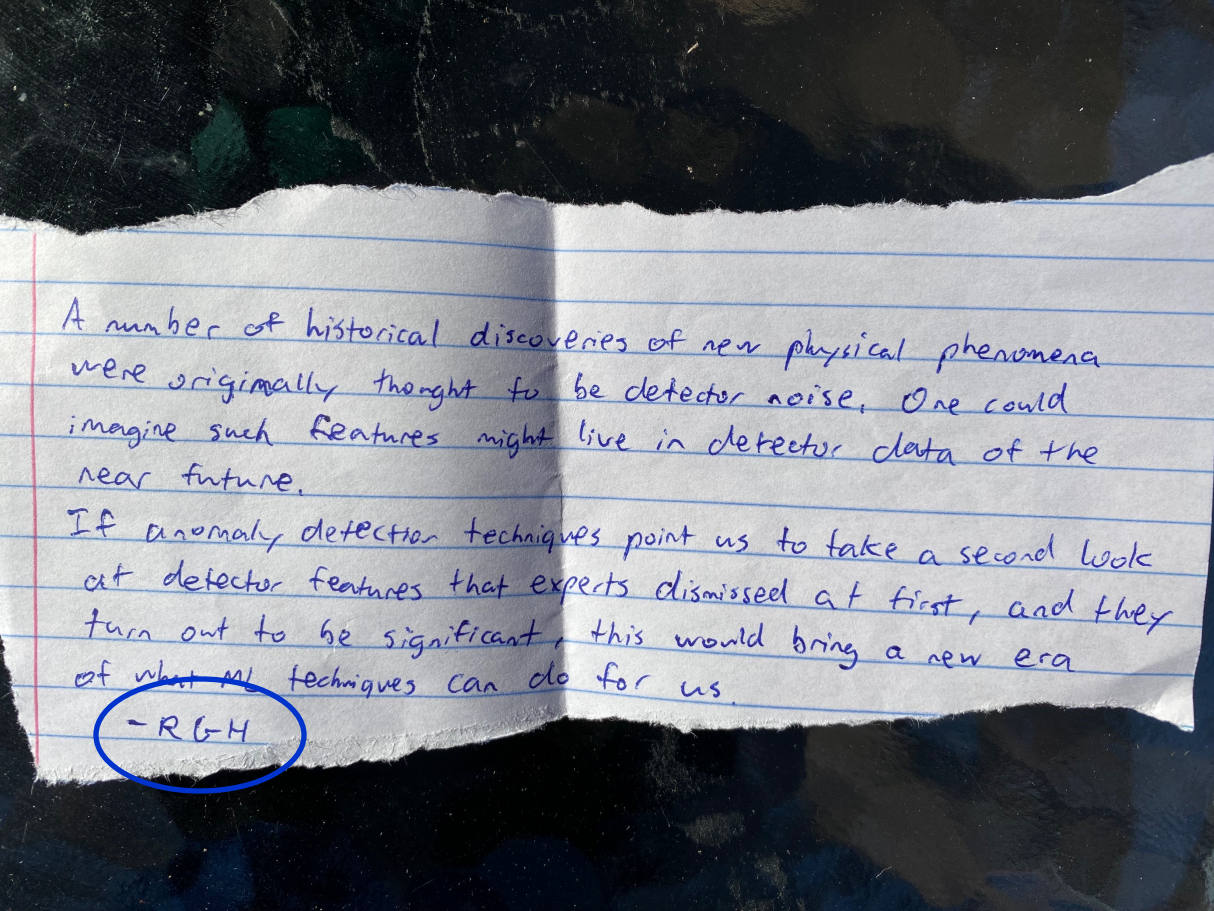
Tianqi Zhang

A 'dark' civilization… aka….

Aliens !

The Winner !

The new physics is already there in the data waiting for ML to discover it...

BUT...

We may need ML to tell us who the winner is...

People I want to thank for making this SSI possible

Glenna Paige & her team:

Martha Siegel
Adrienne Higashi
Regina Matter
Heather Shaughnessy
Araceli Zapata

All of our great Lecturers

My fellow ML SSI organizers:

Greg Madejski, Phil Marshall, Kazu Terao, Michael Kagan & Charlie Young

…and All of You for coming !

Safe travels home & hope to see you all again somewhere..

And now… for the final talk of SSI23….