



### **TSP- AI ML Fundamentals (Capstone Project)**

# PROJECT TITLE

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## DUTLINE

**Problem Statement** (Should not include solution)

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## **Problem Statement**

e ever-increasing volume of spam emails poses a significant challenge for elers and organizations alike. Spam disrupts workflow, consumes valuable stocates, and can expose users to phishing scams, malware, and other security ri

Current spam filtering methods, often rule-based, struggle to keep pace wit evolving spam tactics employed by spammers. These tactics include:

**Sophisticated content:** Spammers use dynamic content, obfuscated text, ar images to bypass traditional filters.

**Personalized attacks:** Spam emails are increasingly targeted towards specifindividuals, making them appear more legitimate.

**Evolving techniques:** Spammers constantly develop new methods to bypas existing detection mechanisms.

is necessitates a more intelligent and adaptable approach to spam detect





# **Proposed Solution**

**roblem:** Spam emails flood inboxes, wasting time, storage, and posing security ris Current methods struggle to keep up with evolving spam tactics.

Solution: We propose an AI & ML powered spam detection model. This model will Be trained on a massive dataset of labeled emails (spam and legitimate).

Analyze email features like text content, sender info, and attachments.

Continuously learn and adapt to identify new spam tactics.

#### **Benefits:**

Higher spam detection accuracy.

Adaptability to combat evolving spam techniques.

Reduced user burden with less spam in inboxes.

Enhanced security by filtering out phishing attempts.





# **Algorithm & Deployment**

#### Algorithm:

Briefly list chosen ML algorithms (e.g., Naive Bayes, SVM). Highlight their strengths for spam detection (e.g., text data efficiency).

#### **Deployment:**

Depending on your project, choose one or more options:

Standalone app for spam classification.

API for email service provider integration.

Cloud deployment for scalability.





# **GitHub Link**

tps://github.com/vinith751/NM-PROJECT-SPAM-EMAIL-DETECTING





# Project Demo(Recorded Video)







## Conclusion

Success: Our AI & ML model achieved a high [mention accuracy/precision/recall/F1 score] in identifying spam emails. This significantly reduces user burden and enhances security.

- **e Future:** We plan to explore further improvements like [mention specare] and integrate the model for real-world impact.
- **Overall:** This project demonstrates the power of AI & ML in combating spam, leading to a more secure and productive email experience.





# **Future Scope**

The war on spam continues! Here's what's next:

Advanced AI: Use even stronger models to outsmart spammers.

Adapting to Change: Train the model to stay ahead of new spam tricks

Beyond Spam: Detect phishing attempts and harmful content.

Wider Reach: Handle spam in multiple languages.

Real-World Use: Integrate the model for wider impact.

These future steps will make your AI & ML spam fighter even more po





### References

- 1.Project Github link, M.VINITH, 2024
- 2. Project video recorded link github, M. VINITH, 2024
  - 3. Project PPT & Report github link, M.VINITH, 2024





# **THANK YOU**