



Week 14: AI Final Project Oral Presentation Guide

https://github.com/kaopanboonyuen/SC310005_ArtificialIntelligence_2025s1

Teerapong Panboonyuen
<https://kaopanboonyuen.github.io>

Title Page








- 📄 Project Title: Clear, short, impactful
- 👥 Team Members: Names & IDs
- 📅 Date: Final Presentation

💡 *Make your project name simple and professional.*

Objectives & Goals




- 🎯 Main project goal (1 sentence)
 - 📌 Sub-objectives (2–3 points)
 - Example: *Classify images, recommend products, predict values*
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Approach / Methodology

-  What AI method are you using?
 - ML  | Deep Learning  | LLMs  | GenAI  | RL 
-  Why did you choose this method?

 *Show as a flowchart or diagram.*

Dataset & Preprocessing

-  Dataset source (open dataset / collected data)
 -  Data preprocessing (cleaning, augmentation, splitting)
 -  Example visuals (sample images, table snapshot)
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Title Page

- 🦖 Dinosaur Classification with Vision Transformers
- 👥 Team Members: Kao, Sam Atman, Mark Zaukerburg
- 📅 Final Presentation – SC310005 AI 2025



Objectives & Goals

- 🎯 Build a model to classify dinosaur images into species categories
- 📌 Sub-goals:
 - Collect and preprocess dinosaur image dataset
 - Train a Vision Transformer for multi-class classification
 - Evaluate model performance with accuracy & F1-score

Approach / Methodology






- 🌀 Computer Vision + Deep Learning
- 🖼️ Model: Vision Transformer (ViT)
- 🔗 Libraries: PyTorch, Hugging Face Transformers
- 📖 Why ViT?
 - Captures global context better than CNNs
 - Excellent for image classification tasks

Dataset & Preprocessing




- 📁 Dataset: Dinosaur Dataset from **Roboflow**
- 🦖 10 classes (e.g., T-Rex, Stegosaurus, Velociraptor)
- 🔍 Preprocessing:
 - Resize images to 224×224
 - Normalize pixel values
 - Augmentation: rotation, flip, random crop



Where to Find Public Datasets

-  **Kaggle** → ML competitions, structured datasets
-  **Roboflow** → Computer Vision datasets
-  **Hugging Face** → NLP & multimodal datasets
-  **AI Meta / Google Dataset Search** → research-level data
-  Tip: Always cite your dataset properly

Model Architecture

-  Model type: CNN / Transformer / YOLO / LLM / etc.
-  Diagram of architecture or pipeline
-  Tools used: PyTorch, TensorFlow, Hugging Face, etc.

Evaluation Metrics



- 📊 Which metrics do you use?
 - Accuracy ✅
 - Precision / Recall / F1 ⚖️
 - RMSE / MAE 📈 (for regression)
- 🏠 Why this metric fits your problem

Results & Experiments




- 📊 Graphs or tables for results
- 🔍 Compare baseline vs improved model
- 🎨 Show predictions or outputs (images/text)

💡 *One chart + one example > too many numbers.*



Demo (Optional but Recommended)

-  Live demo or recorded video
-  Show your system in action

Discussion

-  Strengths of your approach
-  Limitations or challenges
-  Future work / improvements





Acknowledgements & References

-  Thanks to dataset providers, APIs, or libraries used
 -  Cite papers or tools (APA/IEEE style, short format)
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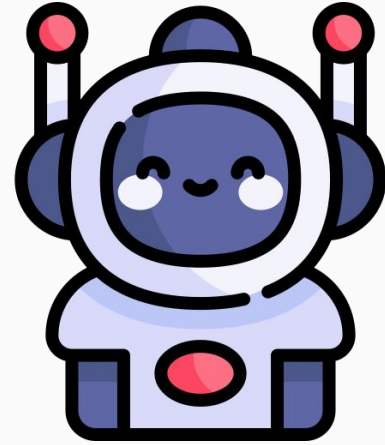
Q&A

-  Invite questions from the audience
-  Be ready with backup slides (extra details: confusion matrix, parameters, training logs).

★ Tips for Success

-  Less text, more visuals (graphs, images, diagrams)
-  Time: 8–10 mins per group
-  Speak clearly, explain simply (avoid jargon)
-  One key idea per slide

Q&A



in Final AI Project?