Computer Vision

Course Project

Guidelines, Proposal Instructions, and Best Practices for a Successful Project

Team Structure

Standard Team

Maximum of 2 students per team is allowed to ensure focused collaboration.

Exceptions

Teams of 3 require a detailed and valid justification in the proposal form.

Project Constraints

- **Avoid High Computation:** No extra GPU resources are provided.
- **Hardware Access:** Ensure you have personal access to necessary hardware.
- **Feasibility:** Choose models that run on standard machines.
- **Optimization:** Focus on efficient algorithms over massive models.

Choosing a Topic

Compute First

Select topics fitting your available computing power.

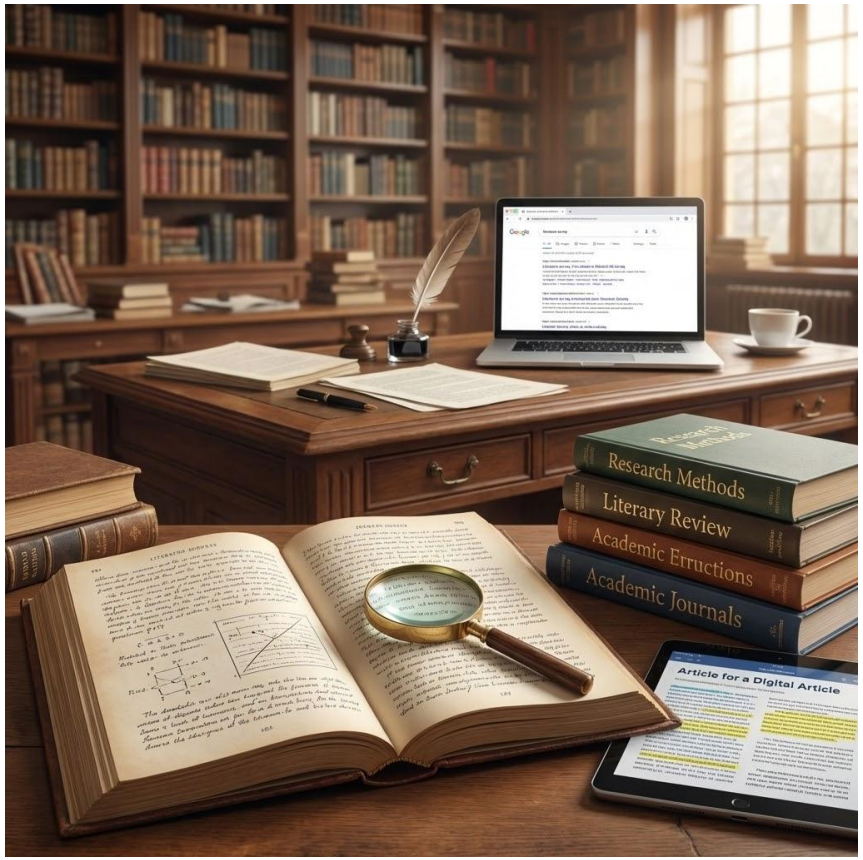
Avoid Trendy

Skip overcrowded topics; find a specific niche problem.

Paper Potential

Aim for promising problems suitable for publication.

Literature Survey



- **Foundation:** Thorough survey is crucial for a strong project.
- **AI Tools:** Leverage AI tools to accelerate paper discovery.
- **Quality:** Select recent papers from top-tier venues.
- **Code Availability:** Prioritize papers that have released their code.

The Value-Add

Identify Gaps

Find shortcomings or limitations in the existing work.

Propose Fixes

Brainstorm methods to alleviate identified drawbacks.

New Context

Apply the existing idea to a non-trivial domain.

Verify Idea

Run your concept by TAs to ensure non-triviality.

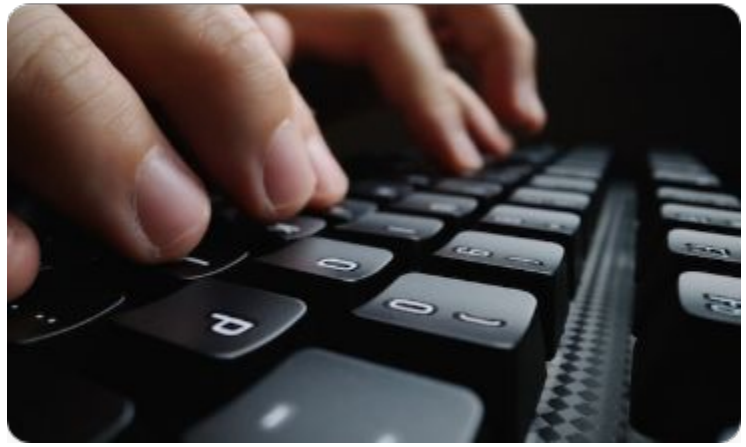
Coding & Implementation

Use AI Agents

Utilize Copilot and agents for faster coding.

Implement SOTA

Implement SOTA papers to truly understand mechanics.



Hands-on Check

Verify paper claims by testing code yourself.

Integrity Policy

0%

Zero Tolerance

Ensure absolute originality of your proposal.

Significant similarity leads to poor grades.

Support & Guidance

Consult TAs early for topic verification.

↓

Use office hours to discuss feasibility or Drop a message in GChat.

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Seek Professor/TA advice if required.

↓

Collaborate to polish final work for publication.


Get Your Hands Dirty
Experiment. Build. Discover the full picture.

Questions?

Discuss doubts with the Professor or TAs.

Submission Deadline: Feb 1st, 2026