

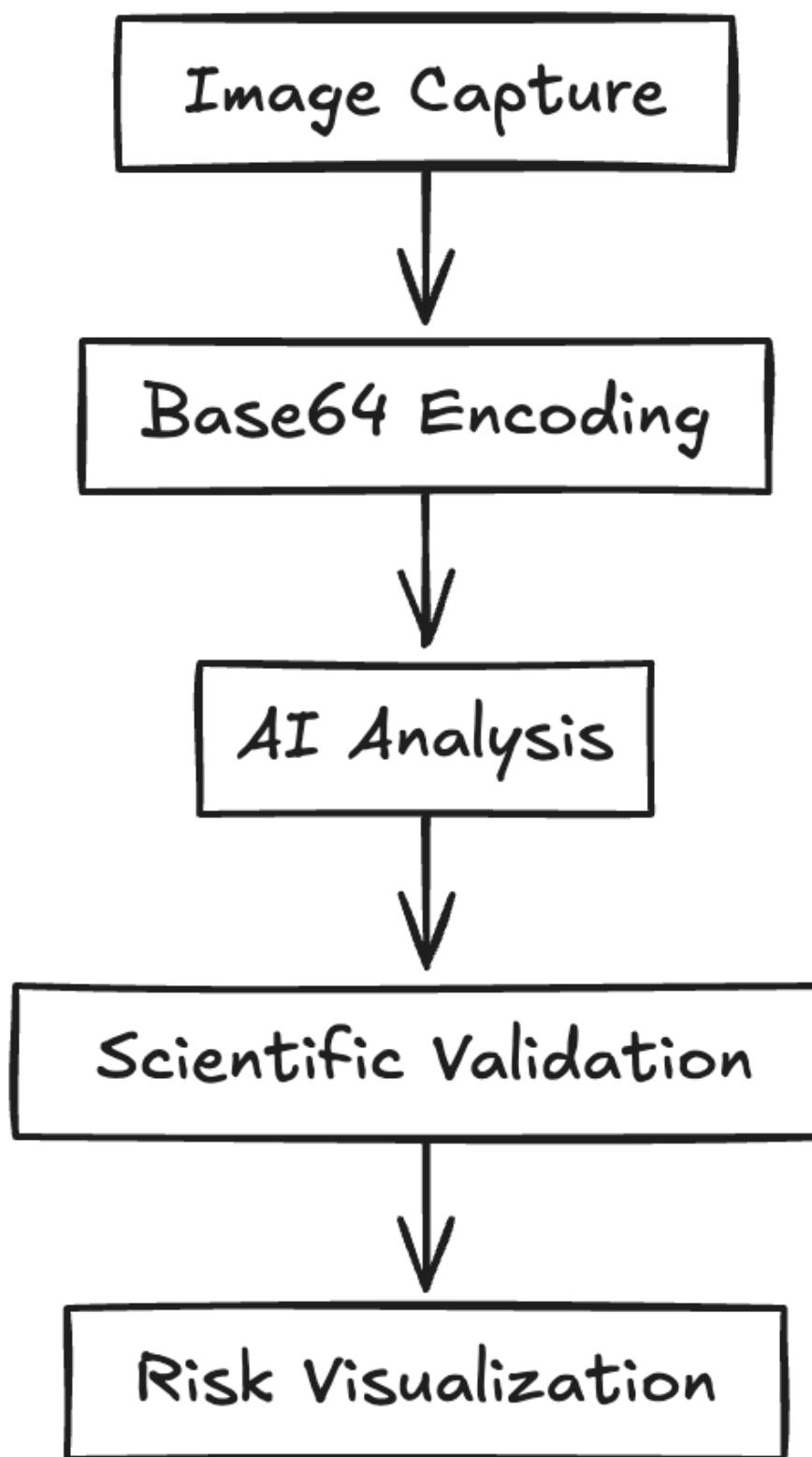
# Avalanche Detection and Risk Analyzer

Next-Gen Mountain Safety Through Computer Vision

# Features

- ✓ Multi-class avalanche detection (5 types)
- ✓ Detailed snowpack analysis
- ✓ Terrain risk assessment
- ✓ Confidence-based predictions

# Data Flow



# Avalanche Detection & Risk Analyzer

Avalanche Detection and Risk Analyzer

OpenAI API Key

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Upload Mountain Image



Analyze Image

Powder Avalanche

Confidence 85%

Snow Analysis

Fluffy

Terrain Analysis

Slope steep (>45°)

Density low

Movement Pattern

Initial Release point

Propagation chaotic

Vertical

Avalanche Detection and Risk Analyzer



Analyze Image

Powder Avalanche

Confidence 85%

Snow Analysis

Fluffy

Terrain Analysis

Slope steep (>45°)

Surface variable

Anchoring Points Convex Rollover

Movement Pattern

Initial Release point

Propagation chaotic

Vertical

Additional Observations

- steep slope
- trees present
- convex rollover

# Avalanche Detection & Risk Analyzer - No Avalanche

