



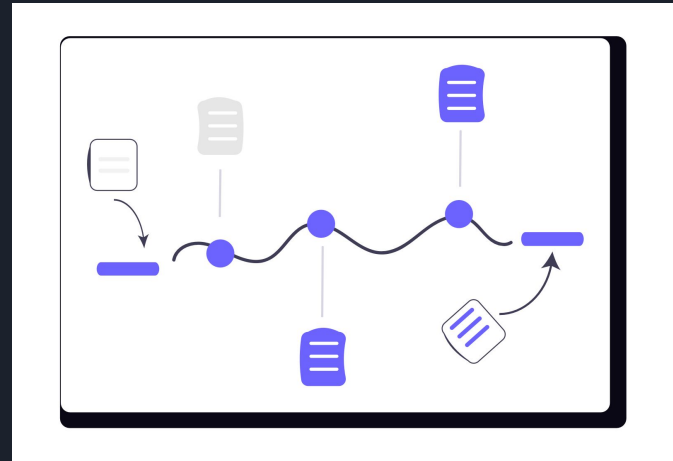
# Expensight

AI-Enhanced Financial  
Auditing at Cal Poly SLO

CA Community College AI Summer Camp 2025,  
powered by 

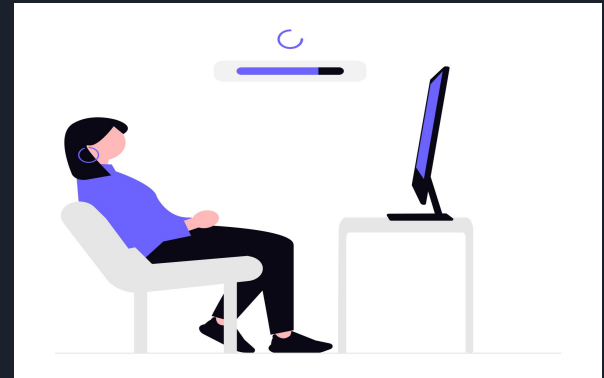
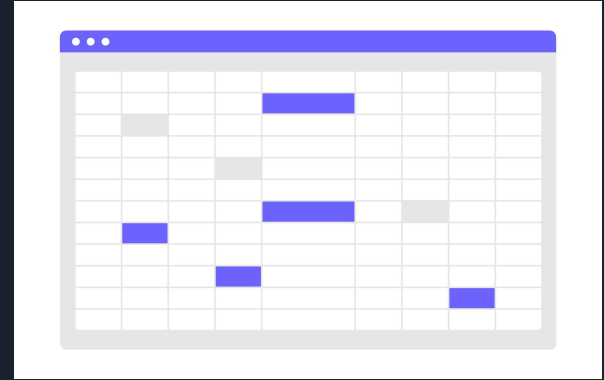
# Why Audit Modernization Matters

- Hours spent on Excel pivots
- Data not always clean
- No centralized analytics tools
- High manual workload
- Errors and false positives



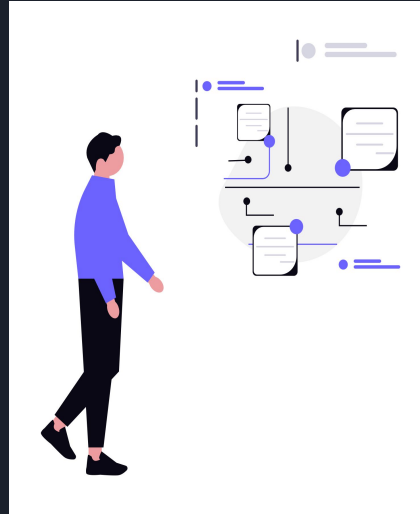
# Key Pain Points in Current Workflow

- Audit process fully manual
- Excel-dependent for all steps
- Expense miscategorization common
- No automation in data validation
- Difficult to spot high-risk outliers



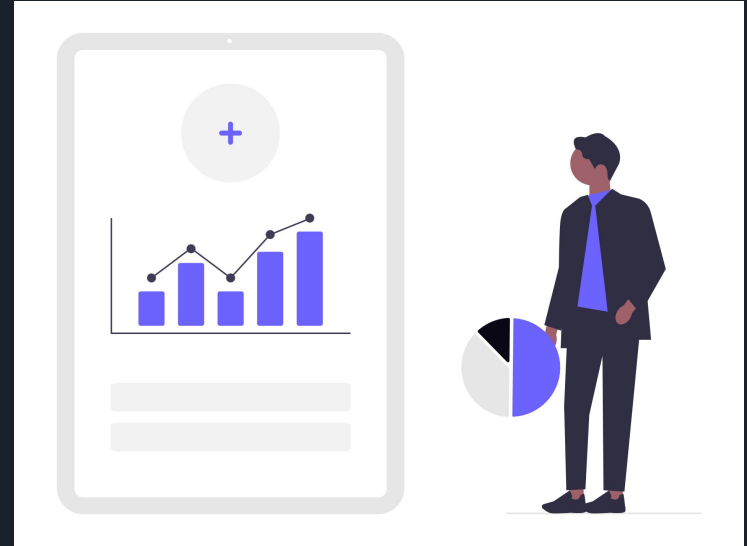
# Proposed AI-Driven Enhancements

- Use AI to analyze expense data
- Python Libraries to combine files
- Automate trend recognition
- Streamline categorization
- Flag true high-risk activity



# Why This Matters Now

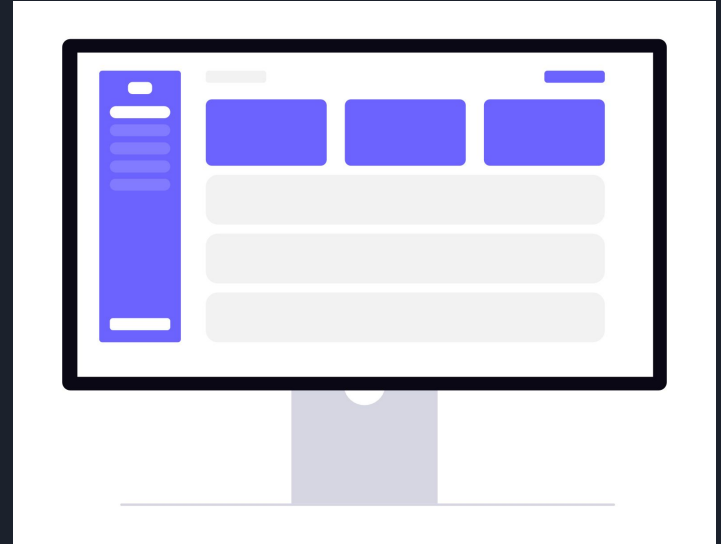
- AI tools proven in audit industry
- Universities adopting AI for ops
- Scalable, cost-saving solution
- Can start small: travel expenses
- Risk of delay = audit backlogs





# Implementation

- Combine data & data clean
- Expense category cleanup
- AI analysis of violations and exceptions
- Generates the reasoning for the violation and exception detections



# Demo



# Looking Ahead

- Machine Learning
  - Receipt Itemization
- Agents
  - Generating Detailed Analytics
  - Recognizing Repeat Offenders
- Adaptability

The image shows a sample invoice form with various fields and annotations. Red boxes highlight specific fields, and red lines connect related fields across the form. The annotations include field names like 'VENDOR\_NAME', 'INVOICE\_RECEIPT\_ID', 'INVOICE #', 'INVOICE DATE', 'P.O.#', 'DUE DATE', 'BILL TO', 'SHIP TO', 'QUANTITY', 'ITEM', 'UNIT PRICE', 'PRICE', 'SUBTOTAL', 'OTHER', 'Sales Tax', 'TOTAL', 'PAYMENT TERMS', 'TERMS & CONDITIONS', 'Payment is due within 15 days', 'VENDOR\_NAME', and 'Please make checks payable to'. The invoice is from 'East Repair Inc.' to 'John Smith's Block'.

**invoice**

**FROM**  
VENDOR\_NAME: East Repair Inc.  
ADDRESS: 1912 Harvest Lane, New York, NY 12210

**SHIP TO**  
RECEIVER\_NAME: John Smith's Block  
ADDRESS: 3787 Pineview Drive, Cambridge, MA 12210

**INVOICE #**: US-001  
**INVOICE DATE**: 11/02/2019  
**P.O.#**: 2312/2019  
**DUE DATE**: 26/02/2019

QUANTITY	ITEM	UNIT PRICE	PRICE
1	Front and rear brake cables	100.00	100.00
2	New set of pedal arms	15.00	30.00
3	Labor 3hrs	5.00	15.00

**SUBTOTAL**: 145.00  
**OTHER**: Sales Tax 6.25%  
**TOTAL**: \$154.06

**TERMS & CONDITIONS**  
Payment is due within 15 days  
Please make checks payable to East Repair Inc.

*John Smith*



# Key Takeaways

- Excel limits audit efficiency
- AI enhances speed and accuracy
- Early implementation = high ROI

