

# **LUMIN.AI**

# Neural Networks for Democratic Transparency



# **Why This Matters**

People don't trust their governments anymore.

Trust in democracy declining globally

US 17%, UK 24% (Pew Research 2024)

**Citizens want transparency** 

But don't know how to get it

Need tools to build trust

Blockchain DAOs achieve 40%+ participation rates

Why Now?

2024: Enough governance data

**New Al tools** 

Makes analysis possible

**Growing demand** 

For democratic innovation

Bottom line: Let's use AI to understand and improve democracy.





# What We're Building

An AI system that analyzes what makes people trust their government / governance models.

#### **Compare governance models**

Blockchain-based (transparent, efficient)
VS. traditional democracy

## Use AI to find what works

Identify effective mechanisms in each system

## Design hybrid solutions

For real communities

# Deliverables by Week 6

#### MVP (Weeks 1-6)

- Core functionality
- · Basic models
- Working dashboard
- Essential UX
- ✓ Working AI model analyzing governance sentiment
- ✓ Statistical analysis of trust patterns
- ✓ Interactive web dashboard
- ✓ User-tested interface designs

#### **Enhanced Features (Weeks 7-10)**

- Advanced models
- · Blockchain integration
- Policy insights

#### **Everyone gets portfolio pieces!**



# **P** m Bridging Digital & Traditional

## Governance

#### **Deep Learning Track**

Analyze how people talk about governance.

- Train AI on 2,000+ governance proposals (Compound, Aave or Uniswap)
- Predict proposal outcomes (65% baseline)
- Al reads governance forums!

#### **UX Design Track**

Design for crypto natives & citizens.

- Research: GitcoinDAO user voting
- Study: Swiss e-voting interfaces
- · Create: One interface for everyone

All tracks build toward a hybrid governance model.



#### **Data Science Track**

Compare digital vs. traditional democracy.

- Dataset 1: Estonian elections (1M+ votes)
- Dataset 2: DAO voting patterns (50K+ votes)
- Discover what drives online participation

#### **Web Development Track**

Build a democracy comparison dashboard.

- Connect: The Graph API (blockchain data)
- Connect: Estonian Open Data Portal
- Display: Real-time governance metrics

# Rich Datasets from Both Worlds

## Structured & Ready to Use:

## **m** Traditional Democracy

- Estonian Elections: 2013-2023 (CSV/XML)
- · Swiss e-voting: Open source code
- · Participation rates, demographics, outcomes

## **Blockchain Governance**

- Compound: Proposals since 2020 (GraphQL)
- Aave: Complete voting history (The Graph)
- GitcoinDAO: 1,000+ proposals with discussions

## What This Means for You:

- No data scraping nightmares
- No access issues everything public
- No small samples 100,000+ data points
- Portfolio ready "Analyzed 50K blockchain votes"

**Research Question:** Can DeFi governance work for real-world decisions?

**Unified Deliverable:** Data-driven blueprint for Blockchain-Inspired Democracy.

Discover what makes blockchain governance work, then bring it to real democracy.

# What You'll Actually Build by Week 6

Real data. Real impact. Real skills.

#### By Week 6, you'll have:

- ✓ Processed 2,000+ governance proposals
- ✓ Compared 2 democracy systems quantitatively
- ✓ Generated 5+ actionable insights
- ✓ Built 1 working application



### **DL: Governance Proposal Analyzer**

Trained on 2K+ proposals; 75%+ accuracy predicting outcomes.

"I built an AI that reads governance forums."



## **DS: Democracy Comparison Study**

Statistical analysis of 1M+ votes; discovered participation patterns.

"I found what drives digital voting."



#### **WD: Live Governance Dashboard**

Pulls from 3+ real APIs; updates every 10 minutes.

"I built a real-time democracy tracker."



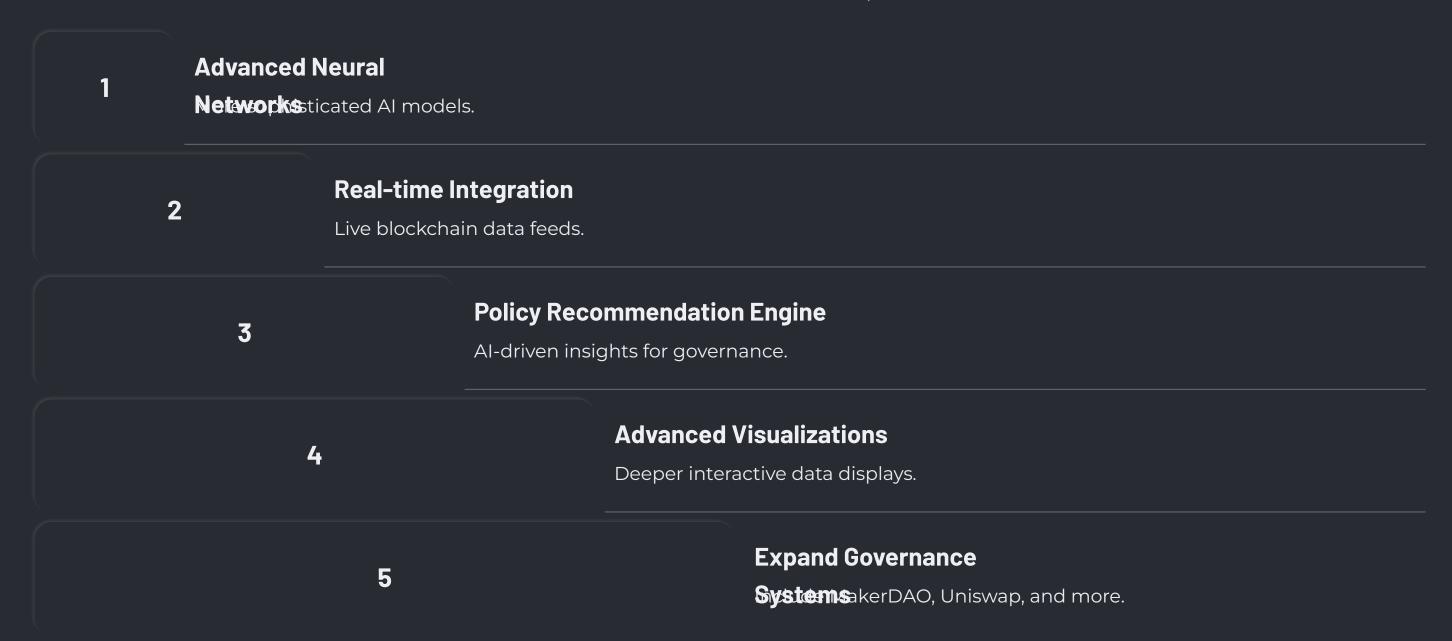
#### **UX: Unified Voting Interface**

Tested with 20+ users; bridges two communities.

"I designed for diverse democracies."

## **Week 10 Enhanced Features - If Time Permits**

Focus on MVP first, then scale impact.



# Learn on Real Systems, Make Real Change

## **X** Technical Skills You'll Master:

- · APIs: The Graph, Snapshot, Open Data Portals
- Languages: Python, React, GraphQL
- · Tools: Dune Analytics, NLP libraries
- Methods: Time-series analysis, sentiment analysis

## Real-World Impact:

- Analyze: 50,000 people governing \$1B+ in DeFi
- · Compare: Digital vs. paper voting in real elections
- Discover: What builds trust in democracy
- · Design: The future of citizen participation

Your Advantage: You'll analyze systems managing \$2bn+ value in DeFi protocols and millions of votes.

## **Build Skills That Matter**

Beginner friendly → Real-world impact → Portfolio-worthy results

#### What You'll Gain

- Technical skills
- Democratic innovation experience
- Proven methodology knowledge

## **Your Project Journey**

**Week 1:** Connect to your first governance API

**Week 3:** Analyze your first 500 proposals

Week 6: Demo your working MVP

Week 10: Graduate with pro-level portfolio

## **A Unique Project Opportunity**

**Join the ONLY project** comparing real blockchain governance data with real election data using proven ML techniques.