

## Project Title:

### **“Wumpus World — NEURA Protocol (Cinematic Edition)”**

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#### **Project Description:**

The *Wumpus World* — *NEURA Protocol* is a **cinematic, logic-based AI adventure game** developed using **React, HTML, CSS, and JavaScript**.

Inspired by the classic *Wumpus World problem* in Artificial Intelligence, this project combines reasoning, perception, and immersive design to simulate an intelligent agent exploring a dangerous grid world.

The player enters the NEURA simulation — a futuristic AI system that must **find the hidden gold** while avoiding **pits and the deadly Wumpus**.

Using percepts such as *breeze*, *stench*, and *glitter*, the system infers knowledge about the environment, allowing players to experience how AI agents reason and make decisions under uncertainty.

This cinematic version introduces an interactive interface, dynamic visuals, custom sounds, and a NEURA reasoning panel that enhances the understanding of AI concepts through gameplay.

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#### **Objectives:**

- To implement the **Wumpus World environment** using modern web technologies.
  - To simulate **AI percepts and logical reasoning** in an interactive game format.
  - To provide a **manual gameplay mode** for users to experience agent-like decision-making.
  - To enhance user experience through **cinematic design, sounds, and responsive visuals**.
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#### **Technologies Used:**

- **Frontend:** HTML, CSS, JavaScript, React (with Babel runtime)
  - **Design & Visuals:** SVG graphics, custom icons, CSS animations
  - **Deployment:** Netlify (for live hosting)
  - **Tools:** VS Code, Canva (for visuals), GitHub (for version control)
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## Key Features:

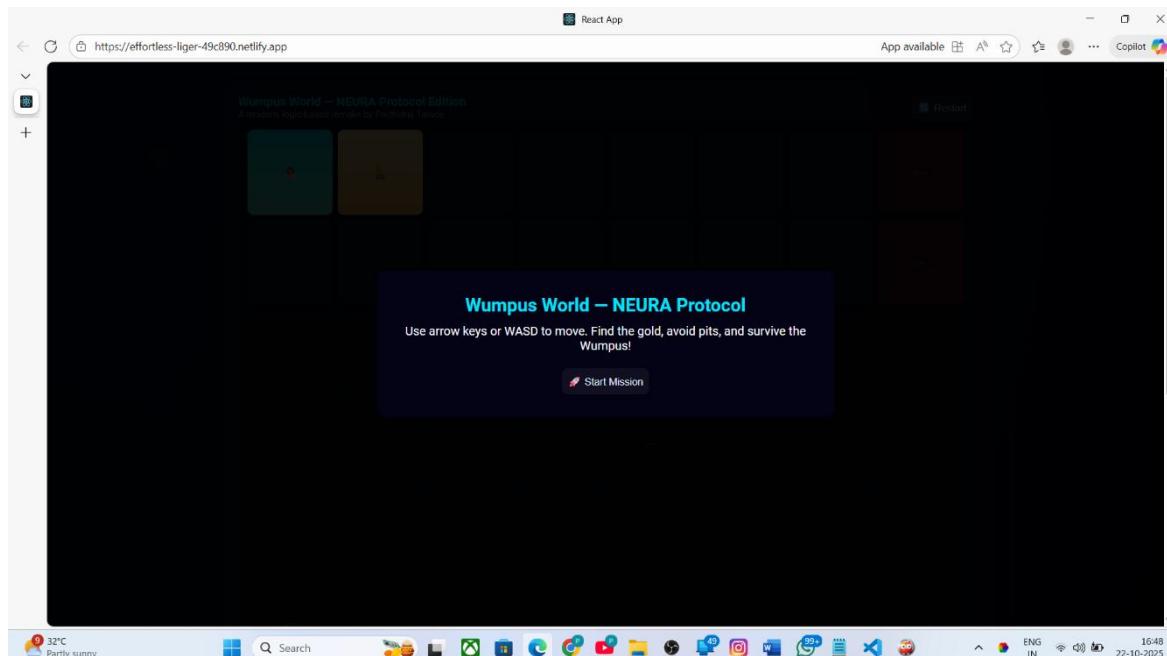
-  Manual player controls (WASD / arrow keys)
  -  NEURA Sensor Panel (shows AI percepts: breeze, stench, glitter)
  -  Real-time reasoning log
  -  Cinematic intro screen and visual effects
  -  Sound feedback and responsive interaction
  -  Fully deployable static build (Netlify-ready, offline supported)
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## Outcome:

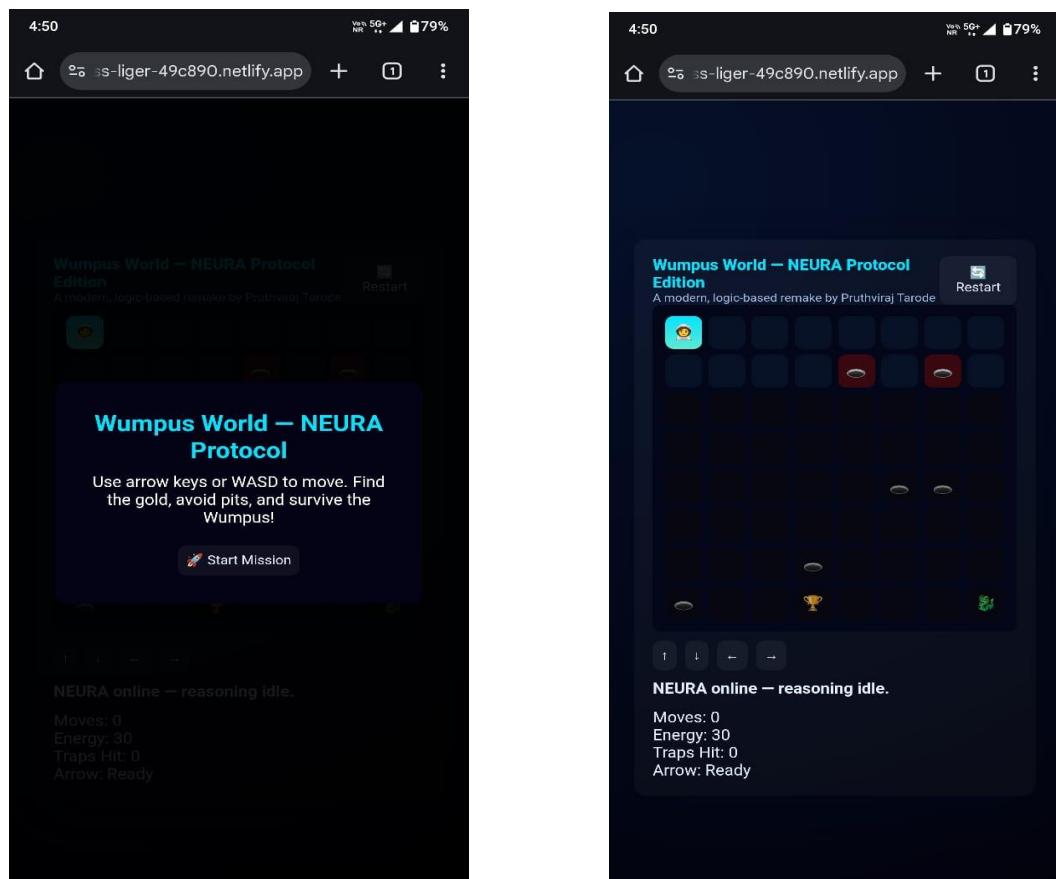
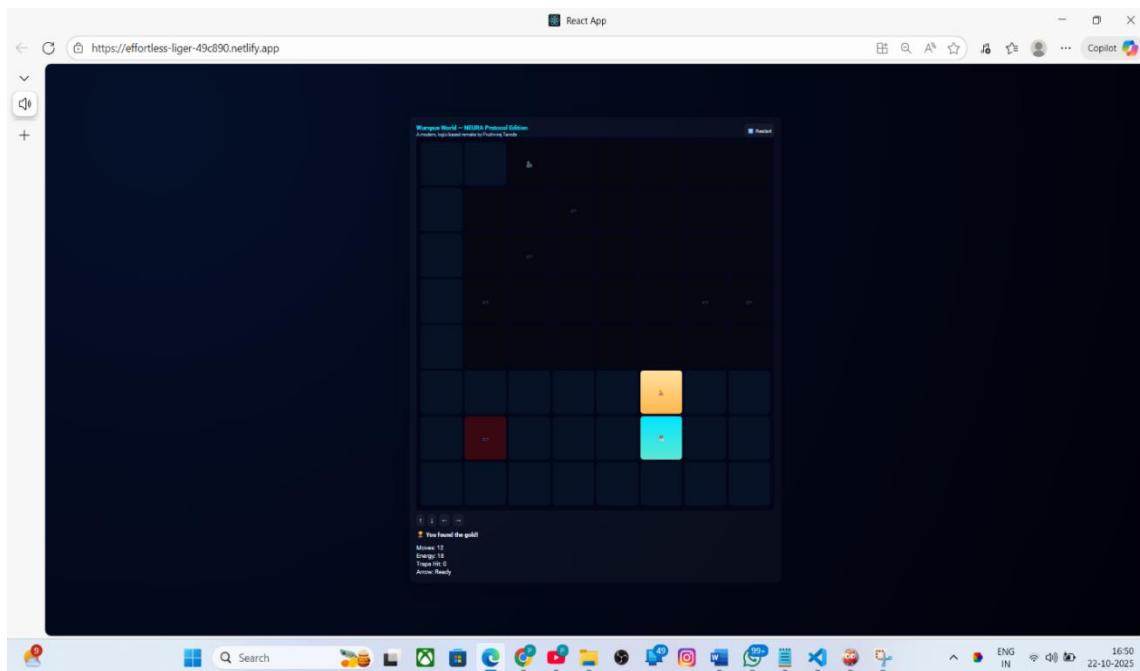
This project successfully demonstrates how **AI reasoning and perception** can be visualized in an interactive web-based environment.

It bridges the gap between **theoretical AI concepts** and **practical understanding** through immersive gameplay and user experience.

The final build — *Wumpus World: NEURA Protocol* — is a fully functional, deployable web app representing modern AI logic visualization with cinematic presentation.



 Project View in Laptop



## 📱 Project View in Mobile