JackAmichai / **Scholar2.6**

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New Google scholar

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JackAmichai Merge pull request #1 from JackAmichai/add-dynamic-api-keys-and-models

687ef9f · 3 days ago

landing-page	Fix API key passing, add multi-LLM ...	3 days ago
public	Update branding assets and verify ...	3 days ago
scholar-2.6-edge	feat: Add Microsoft Edge extension ...	4 days ago
src	Enhance landing page with diagra...	3 days ago
.env.example	Initial commit: Scholar 2.6 Chrome ...	4 days ago
.gitignore	feat: Add Microsoft Edge extension ...	4 days ago
QUICKSTART.md	Initial commit: Scholar 2.6 Chrome ...	4 days ago
README.md	Initial commit: Scholar 2.6 Chrome ...	4 days ago
eslint.config.js	Initial commit: Scholar 2.6 Chrome ...	4 days ago
index.html	Initial commit: Scholar 2.6 Chrome ...	4 days ago
manifest.json	feat: Add 20 major improvements - ...	4 days ago
package-lock.json	feat: add settings for dynamic API k...	3 days ago
package.json	feat: Add 20 major improvements - ...	4 days ago
postcss.config.js	Initial commit: Scholar 2.6 Chrome ...	4 days ago
tailwind.config.js	Initial commit: Scholar 2.6 Chrome ...	4 days ago
tsconfig.app.json	Initial commit: Scholar 2.6 Chrome ...	4 days ago
tsconfig.json	Initial commit: Scholar 2.6 Chrome ...	4 days ago
tsconfig.node.json	Update tsconfig.node.json	3 days ago
vite.config.ts	Update vite.config.ts	3 days ago

README

Scholar 2.6: AI Research Navigator

A Chrome Extension that overlays any webpage with an AI-driven conversational interface and interactive knowledge graph for academic research discovery.

Features

- 🤖 **AI Conversational Loop**: Iterative intent refinement through dialogue
- 🌳 **Interactive Knowledge Graph**: Force-directed visualization with click-to-expand
- 🔬 **Semantic Scholar Integration**: Real academic paper data with SPECTER2 embeddings
- 🎨 **Shadow DOM Isolation**: No CSS conflicts with host pages
- ⚡ **Hot Module Replacement**: Vite-powered development experience

Quick Start

1. Install Dependencies

```
npm install
```

2. (Optional) Add API Keys

Copy `.env.example` to `.env` and add your keys:

```
cp .env.example .env
```

Note: The extension works with mock data without API keys for testing.

3. Development

```
npm run dev
```

This starts the Vite dev server with HMR.

4. Load Extension in Chrome

1. Open `chrome://extensions/`
2. Enable "Developer mode"
3. Click "Load unpacked"
4. Select the `dist/` folder

5. Test It

1. Navigate to any webpage
2. Click the floating blue/purple button in the bottom-right

3. Start chatting about your research topic!

Project Structure

```
scholar-2.6/
├── manifest.json          # Chrome Extension manifest
├── src/
│   ├── background/        # Service worker
│   ├── content/           # Content script + App
│   ├── components/        # React components
│   ├── hooks/             # Custom hooks (AI agent)
│   ├── utils/             # API clients
│   └── types/             # TypeScript definitions
├── vite.config.ts         # Vite + CRXJS config
└── tailwind.config.js     # Tailwind CSS config
```

How It Works

The "Loop"

1. User types broad query like "Computer Vision"
2. AI asks clarifying questions about:
   - **Scope**: Which subdomain?
   - **Timeframe**: Current or foundational?
   - **Focus**: Theory or applications?
3. After 1-3 rounds, AI calls `search_semantic_scholar()` function
4. Papers are fetched and displayed as an interactive graph

The Graph

- Nodes = Papers (sized by log(citations))
- Links = Citation relationships
- Click to expand and fetch more related papers
- Physics simulation for natural layout

API Integration

Semantic Scholar

- **Endpoint**: `https://api.semanticscholar.org/graph/v1`
- **Rate Limit**: 100 requests / 5 minutes (free tier)
- **Features**: SPECTER2 embeddings for similarity

OpenAI

- **Model**: GPT-4 Turbo
- **Feature**: Function Calling for intent detection

Development

```
# Run dev server
npm run dev

# Build for production
npm run build

# Type check
npm run type-check
```

Next Steps

- Add "unfold" mechanism (fetch citations on node click)
- [ ] Implement vector similarity clustering
- [ ] Add chronological force to graph
- [ ] Create paper detail tooltips
- [ ] Add export functionality (BibTeX, JSON)
- [ ] Backend proxy for API keys

License

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

Contributors 3


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google-labs-jules[bot]

Languages

TypeScript 73.6% **CSS** 13.3% **HTML** 10.0% **JavaScript** 3.1%

Suggested workflows

Based on your tech stack

SLSA Generic generator Configure

Generate SLSA3 provenance for your existing release workflows

Datadog Synthetics Configure

Run Datadog Synthetic tests within your GitHub Actions workflow

Webpack Configure

Build a NodeJS project with npm and webpack.

More workflows Dismiss suggestions