

Troubleshooting Guide

This guide covers common issues and their solutions. If you're having problems, check here first!

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Local Development Issues

“Command not found” or “Not recognized as a command”

Problem: When trying to run Python, Node, or other commands, you get an error saying the command isn't recognized.

Solution:

1. Make sure you installed Python/Node.js
2. Restart your terminal/command prompt
3. On Windows, make sure “Add to PATH” was checked during installation
4. Try using `python3` instead of `python` (or vice versa)
5. Try using `npm` with full path: `C:\Program Files\nodejs\npm`

Scripts won't run on Mac/Linux

Problem: `./start_backend.sh` says “Permission denied”

Solution:

```
chmod +x start_backend.sh
chmod +x start_dashboard.sh
```

Port already in use

Problem: “Port 5000 is already in use” or “Port 3000 is already in use”

Solution:

1. Check if you already have the server running in another window
2. Close any other programs using that port
3. On Mac/Linux:

```
bash
# Kill process on port 5000
lsof -ti:5000 | xargs kill -9
# Kill process on port 3000
```

```
lsof -ti:3000 | xargs kill -9
```

4. On Windows:

cmd

```
# Find and kill process on port 5000
```

```
netstat -ano | findstr :5000
```

```
taskkill /PID [PID_NUMBER] /F
```

Database Issues

Can't connect to database

Problem: "Connection refused" or "Could not connect to database"

Solution:

1. Make sure PostgreSQL is running:

- **Windows:** Check Services, start PostgreSQL

- **Mac:** `brew services start postgresql`

- **Linux:** `sudo systemctl start postgresql`

1. Check your `.env` file in `betting_backend/api/` :

- Is the password correct?

- Is the database name correct?

- Is the host correct? (should be `localhost` for local)

2. Verify the database exists:

```
sql
```

```
# In PostgreSQL
```

```
\l # List all databases
```

```
# Should see 'betting_analysis' in the list
```

"database does not exist"

Problem: Error saying the database doesn't exist

Solution:

1. Open PostgreSQL (pgAdmin or psql)

2. Create the database:

```
sql
```

```
CREATE DATABASE betting_analysis;
```

3. Load the schema:

- Open `betting_backend/database/schema.sql`

- Copy and paste into PostgreSQL

- Run it

"relation does not exist" or "table does not exist"

Problem: Tables aren't created in the database

Solution:

1. Make sure you ran the `schema.sql` file

2. Check you're connected to the right database

3. Re-run the schema:

```
bash
cd betting_backend/database
psql -U postgres -d betting_analysis -f schema.sql
```

“password authentication failed”

Problem: Wrong database password

Solution:

1. Check your `.env` file has the correct password
2. Try resetting the PostgreSQL password:

```
sql
ALTER USER postgres PASSWORD 'new_password';
```

3. Update the password in `.env` file

Backend API Issues

Backend won't start

Problem: Backend crashes immediately or shows errors

Solution:

1. Check if you have all dependencies:

```
bash
cd betting_backend
pip install -r api/requirements.txt
```

1. Check for Python errors in the output
2. Verify your `.env` file exists in `api/` folder
3. Test the database connection:

```
bash
cd api
python connection.py
```

“ModuleNotFoundError”

Problem: Python can't find required modules

Solution:

1. Make sure you installed requirements:

```
bash
pip install -r api/requirements.txt
```

2. If using virtual environment, make sure it's activated:

```
bash
source venv/bin/activate # Mac/Linux
venv\Scripts\activate    # Windows
```

API returns 500 errors

Problem: API is running but returns error 500 on requests

Solution:

1. Check the terminal/console for error messages

2. Verify database connection is working
3. Check that tables exist in database
4. Look for Python errors in the backend logs

CORS errors in browser

Problem: Browser console shows CORS errors

Solution:

1. Check `CORS_ORIGINS` in backend `.env` file
 2. Make sure it includes your dashboard URL:
`CORS_ORIGINS=http://localhost:3000`
 3. Restart the backend after changing `.env`
-

Dashboard Issues

Dashboard shows blank page

Problem: Dashboard loads but nothing shows up

Solution:

1. Check browser console (Press F12) for errors
2. Verify backend is running (go to `http://localhost:5000/api/health`)
3. Check `.env.local` has correct API URL:
`NEXT_PUBLIC_API_URL=http://localhost:5000`
4. Restart the dashboard

“Failed to fetch” or “Network error”

Problem: Dashboard can't connect to backend

Solution:

1. Verify backend is running:
 - Visit `http://localhost:5000/api/health`
 - Should see a health check message
1. Check `.env.local` in dashboard folder:
`NEXT_PUBLIC_API_URL=http://localhost:5000`
2. Check for CORS errors in browser console (F12)
3. Make sure firewall isn't blocking connections

Dashboard won't start

Problem: Dashboard crashes or won't start

Solution:

1. Delete `node_modules` and reinstall:
`bash`
`cd betting_dashboard`

```
rm -rf node_modules
npm install
```

1. Clear Next.js cache:

```
bash
rm -rf .next
npm run dev
```

2. Check for Node.js errors in the output

“npm not found” or “node not found”

Problem: Can’t run npm commands

Solution:

1. Install Node.js from <https://nodejs.org>
2. Restart your terminal
3. Verify installation:

```
bash
node --version
npm --version
```

Deployment Issues (Render.com)

Service fails to deploy

Problem: Render shows “Deploy failed”

Solution:

1. Click on “Logs” in Render to see the error
2. Common issues:
 - Wrong build command
 - Wrong start command
 - Missing environment variables
 - Wrong root directory

1. Verify your settings match DEPLOYMENT.md

Database connection fails on Render

Problem: API can’t connect to database

Solution:

1. Check environment variables:
 - DATABASE_URL should be set
 - Copy from your database’s “Internal Database URL”
1. Make sure you’re using the **Internal** URL, not external
2. Verify the database is running (check Render dashboard)

503 Service Unavailable

Problem: Site shows 503 error

Solution:

1. Free tier services “sleep” after 15 minutes
2. First request wakes them up (takes 30-60 seconds)
3. Refresh the page after waiting
4. If problem persists, check Render logs

Environment variables not working

Problem: Settings in Render don’t seem to apply

Solution:

1. After changing environment variables, service must redeploy
2. Render should auto-redeploy, but you can trigger manually:
 - Go to service settings
 - Click “Manual Deploy” → “Deploy latest commit”

CORS errors after deployment

Problem: Dashboard can’t connect to API

Solution:

1. Update API’s `CORS_ORIGINS` environment variable:

```
CORS_ORIGINS=https://your-dashboard-url.onrender.com
```

1. Update dashboard’s `NEXT_PUBLIC_API_URL` :

```
NEXT_PUBLIC_API_URL=https://your-api-url.onrender.com
```

2. Make sure both services redeploy after changes

Data and Prediction Issues**No predictions showing**

Problem: Predictions page is empty

Solution:

1. You need to run the ML models first to generate predictions
2. Check the backend quickstart guides:

- `NBA_QUICKSTART.md`
- `ML_QUICKSTART.md`

1. Run the prediction generation scripts:

```
bash
cd betting_backend
python scripts/generate_predictions.py
```

2. Verify data exists in database:

```
sql
SELECT COUNT(*) FROM projections;
```

No games showing

Problem: Can’t see any games

Solution:

1. Need to collect game data first:

```
bash
```

```
cd betting_backend
```

```
python collect_data.py
```

1. Check if games exist in database:

```
sql
```

```
SELECT COUNT(*) FROM games;
```

Predictions seem wrong or outdated

Problem: Predictions don't look right

Solution:

1. Predictions are based on historical data
2. Update your data regularly:

```
bash
```

```
python collect_data.py
```

1. Retrain models with new data periodically
2. Check for player injuries or trades (manual verification)

General Troubleshooting Tips

Check Logs

Local:

- Terminal/command prompt shows errors in real-time
- Read the error messages carefully

Render:

- Click on service → Logs tab
- Shows detailed deployment and runtime logs

Restart Everything

When in doubt:

1. Stop all running services
2. Restart database
3. Restart backend
4. Restart dashboard
5. Clear browser cache (Ctrl+Shift+Delete)
6. Try again

Verify File Locations

Make sure files are in the right place:

```
betting_backend/  
  api/  
    .env          ← Environment file  
    server.py     ← Main API file  
    connection.py ← Database connection  
  database/  
    schema.sql    ← Database schema  
  
betting_dashboard/  
  .env.local      ← Environment file  
  lib/  
    api-client.js ← API client
```

Browser Developer Tools

Press **F12** in your browser to:

- See JavaScript errors (Console tab)
- Inspect network requests (Network tab)
- View data being sent/received

Still Stuck?

1. Check if the issue is in GitHub repository issues
 2. Review all documentation files
 3. Search for the error message online
 4. Check Render.com documentation if deployed
 5. Verify you followed all setup steps
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Error Messages Reference

Common Error Messages and Solutions

Error	Likely Cause	Solution
"ECONNREFUSED"	Backend not running	Start the backend
"CORS policy"	CORS not configured	Update CORS_ORIGINS
"relation does not exist"	Database tables missing	Run schema.sql
"password authentication failed"	Wrong DB password	Fix .env file
"MODULE_NOT_FOUND"	Missing dependencies	Run npm install or pip install
"Port already in use"	Port occupied	Kill process or use different port
"Cannot find module"	Missing import	Check file paths
"502 Bad Gateway"	Backend crashed	Check Render logs

Prevention Tips

To avoid issues:

1.  Always check .env files are correct
2.  Keep dependencies updated
3.  Test locally before deploying
4.  Commit code regularly
5.  Read error messages carefully
6.  Keep database backed up
7.  Document any custom changes

Best Practices:

1. Before starting work:

- Pull latest code from Git
- Check all services are running
- Verify database connection

2. During development:

- Test changes frequently
- Check browser console for errors
- Read backend logs

3. Before deploying:

- Test everything locally

- Commit and push code
 - Verify environment variables
-

Still Need Help?

If you've tried everything and still have issues:

1. Collect Information:

- What were you trying to do?
- What error message did you see?
- What have you already tried?
- Screenshots of errors

2. Check Documentation:

- SETUP.md for local setup
- DEPLOYMENT.md for Render issues
- USER_GUIDE.md for usage questions

3. Community Resources:

- Render Community: <https://community.render.com>
- Stack Overflow
- GitHub Issues (if using a repository)

Remember: Most issues are simple fixes - stay calm and work through the steps systematically! 🔧