# Sagnik Dhar

Student at IIT (ISM) Dhanbad | Open Source Enthusiast | Developer
📍 Dhanbad, India | ✉ ssagnikdhar@gmail.com
🔗 GitHub: [github.com/KingasRahd](github.com/KingasRahd) | 🔗 LinkedIn: [linkedin.com/in/ssagnikdhar](linkedin.com/in/ssagnikdhar)

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## 💻 Technical Skills

**Languages**: Python
**Frameworks & Libraries**: Streamlit, Pandas, NumPy, Matplotlib, Seaborn, LangChain
**Tools & APIs**: Git, GitHub, Google Colab, Jupyter Notebook, YouTube Data API, Gemini API
**Other**: Prompt Engineering, Data Visualization, Basic Web Scraping

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## 🛠️ Projects

◆ **YTIntel – YouTube Channel Analyzer**

**Tech Stack**: Python, Streamlit, Gemini API, YouTube Data API
🔗 [ytintel.streamlit.app](ytintel.streamlit.app)

- Built an app that filters and recommends relevant YouTube videos based on user goals using LLMs

- Integrated video categorization and semantic filtering using LangChain & Gemini

- Designed an intuitive UI with Streamlit for effortless browsing

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◆ **Insight Engine – YouTube Video QnA Chatbot**

**Tech Stack**: Python, YouTube Transcription API, Gemini API, Streamlit, Pandas
🔗 [insight-engine.streamlit.app](insight-engine.streamlit.app)

- A tool that reads YouTube video transcripts and answers user questions related to the video

- Supports importing past conversations for context retention

- Allows exporting chat history as downloadable documents

- Memory-enabled system to maintain continuity in chat

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- ◆ **Olympic Analyser**

**Tech Stack**: Python, Streamlit, Pandas, Matplotlib
🔗 olympicanalysis.streamlit.app

- Built an interactive dashboard analyzing Olympic data by country, sport, and year

- Enabled visual insights with dynamic filters and plotted data trends

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- ◆ **Placement Analyser**

**Tech Stack**: Python, Streamlit, Pandas, Seaborn
🔗 placement-analysis.streamlit.app

- Developed a tool to visualize placement data from institute datasets

- Enabled filtering by department, company, and salary ranges with visualizations

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## 🧑‍💻 Open Source & Git

- Actively contribute to personal repositories on GitHub

- Comfortable working with Git version control, commits, branching, and project structuring

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## 🎓 Education

**Indian Institute of Technology (ISM), Dhanbad**
B.Tech – Mining Machinery Engineering (2024–2028)

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## 🌱 Additional Info

- Passionate about open-source, AI, and building solutions to real-world problems

- Currently exploring more ways to contribute meaningfully to public codebases