GEN AI BY ELEVATEBOX

Hands-on Generative AI with LlamaIndex, LangChain and Python

Version Control Systems : 6 hours

- Introduction to Git
- GitHub Basics
- Branching and Merging
- Pull Requests
- Virtual Environment

Data Handling and Colab Introduction : 6 hours

- Overview of Google Colab
- Data Import/Export
- Data Cleaning and Manipulation

Python for Generative AI : 6 hours

- Basics of Generative AI
- Python Libraries for Generative AI

Example Projects

Tools and Model Building : 6 hours

- Flask
- FastAPI
- API testing with POSTMAN
- Streamlit (first frontend app)

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Machine Learning Applications & Landscape : 6 hours

- Overview of ML Applications
- Industry Use Cases
- Trends in ML

Building end-to-end Machine Learning Project : 6 hours

- Problem Definition
- Data Collection
- Model Building
- Evaluation
- Deployment

How does a Machine Learn? : 6 hours

- Introduction to ML Concepts
- Supervised vs Unsupervised Learning
- Training and Testing

Introduction to Natural Language Processing : 6 hours

- Basics of NLP
- Text Processing
- Sentiment Analysis
- NLP Libraries

Word Embeddings, OpenAI API, Vector DB : 6 hours

- Word Embeddings
- Using OpenAI API
- Introduction to Vector Databases

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LangChain, LlamaIndex : 6 hours

- Overview of LangChain
- Using LlamaIndex for NLP Tasks

Stable Diffusion : 6 hours

- Introduction to Stable Diffusion
- Use Cases
- Implementation Examples

Use of Common AI Tools for Automating Daily Tasks : 6 hours

- Overview of AI Tools
- Automation Examples
- Practical Applications

Gen AI with APIs : 6 hours

- Generative AI with APIs
- Integrating APIs in Projects
- Example Projects

Miscellaneous : 6 hours

- Additional Topics
- Resources for Further Learning

Major Project - Student Individual

- End-to-End Project
- Evaluation