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*Launching Summer 2024*

**HIGH SCHOOL EDITION**  
**OF OUR RENOWNED COLLEGE**  
**VIRTUAL-INTERNSHIP PROGRAM**



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BIOINFORMATICS  
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# INTRODUCTORY EXPLORATIONS

HIGH SCHOOL EDITION OF OUR ACCLAIMED COLLEGE VIRTUAL-INTERNSHIP PROGRAM

## AI Series: OpenAI GPT-Driven Text Summarization

**Project Availability Online:** Begins May 1st - learn at your own pace

**Dedicated Forum Support:** July 15-19, with expert Q&A and troubleshooting

**Mentor Live Sessions:** July 15th, 19th at 2 PM Pacific - sessions will be recorded for flexible viewing

### Overview

Delve into the world of AI with a program derived from our acclaimed college-level projects. This Python-focused series takes you through the nuances of AI-driven text analysis, utilizing OpenAI GPT API to summarize Amazon product reviews.

- Pre-requisite Skills: Foundational knowledge of Python (online resources provided)

### Module 1

- Download and explore the Stanford SNAP Amazon Reviews dataset.
- Write Python scripts to read, filter, and clean text data.
- Skills Gained: Python Proficiency, Data Manipulation with Pandas

### Module 2

- Set up an OpenAI API account and obtain necessary API keys.
- Write Python scripts to interact with the OpenAI GPT API, processing review text and generating summaries.
- Skills: API Integration with Python, Working with JSON & OpenAI GPT



## INTRODUCTORY EXPLORATIONS

HIGH SCHOOL EDITION OF OUR ACCLAIMED COLLEGE VIRTUAL-INTERNSHIP PROGRAM

### BIOINFORMATICS SERIES: Data Analysis with GEO

**Project Availability Online:** Begins May 1st - learn at your own pace

**Dedicated Forum Support:** July 22-26, with expert Q&A and troubleshooting

**Mentor Live Sessions:** July 22nd, 26th at 2 PM Pacific - sessions will be recorded for flexible viewing

#### Overview

Delve into the world of bioinformatics with a program derived from our acclaimed college-level projects. This code-centric series introduces you to the analysis of biological data using the Gene Expression Omnibus (GEO) database.

- Pre-requisite Skills: Foundational knowledge of R (online resources provided)

#### Module 1

- Explore the GEO database
- Download Expression Data, Acquire and understand Metadata
- Install essential R packages and load data for analysis
- Skills Gained: R Proficiency, Introduction to Bioconductor Packages

#### Module 2

- Conduct preliminary analysis with GEO2R, a web-based tool for gene expression analysis
- Replicate initial steps of the GEO2R Analysis Workflow in R
- Skills: R Proficiency, Introduction to Bioinformatics Techniques



*Getting hands-on with coding through these projects really opened doors for me. It was the jumpstart I needed both for programming and exploring different majors!*

**Disha 2020, 2021 Intern, Currently at MIT**

*Having the privilege to be a part of this amazing program has shown me that projects can be serious, captivating, and fun at the same time, and that one attribute does not need to be sacrificed for the other in order to build an amazing project and to learn and gain experience.*

**Jeff 2021 Intern, Currently at UCLA**