

Prompt Engineer Professional Diploma Program

EXAMPLE PROGRAM SYLLABUS

Comprehensive Curriculum

Curriculum Includes Job-readiness/Soft Skills/Health & Safety

All lesson plans and syllabi are subject to change based upon Diploma and Certificate of Completion choices

SUMMARY

The Prompt Engineer Professional program offers an extensive and immersive learning experience tailored to prepare students for a successful career in the dynamic field of AI language model engineering. This curriculum encompasses a broad range of critical topics, ensuring a solid foundation in Programming, Natural Language Processing (NLP), Machine Learning, Data Analysis, Data Visualization, API Integration, Version Control, Experimentation and Evaluation, Optimization Techniques, and Software Development Best Practices. Through a combination of theoretical instruction and practical, hands-on exercises, students will develop a comprehensive understanding and skill set in prompt engineering, empowering them to address real-world challenges and excel in their professional endeavors.

OBJECTIVES

To prepare students for post-program success by providing a rich learning environment utilizing research-based methods of instruction and providing access to relevant and current resources and materials. Students will participate in a challenging and worthwhile diploma program based on current industry/academic expectations. The Prompt Engineer Professional Program will provide students with a roadmap to gainful employment by instruction in 4.5 courses and real-world industry experience in a 240-clock hour externship.

COURSES

Foundations of Computer Science and Programming with Python and Scala, Advanced Programming, Machine Learning, and Artificial Intelligence with Scala and Py, Deep Learning, Natural Language Processing, and Conversational AI with TensorFlow, PyTorch, and spaCy, Applied Data Engineering, Cloud Services, and Visualization with Advanced Analytics and Debugging Techniques, Health and Safety and Job Readiness, and Externship.

REQUIRED MATERIAL

- Personal Computer with stable access to internet (highly recommended)
- 8-16GB USB Flash Drive or Portable USB or FireWire Hard Drive Dropbox account (Highly recommended)
- Notebook and/or sketch book

COURSE FORMAT

- Instructor Led Lecture
- Discussion/critique
- Interactive applications
- Virtual Lab time sessions

ASSIGNMENTS

Many of the course research requirements and assignments will be fulfilled during lab time, a one-hour session during in class meetings will be dedicated to projects and task assessments.

STUDENT ASSESMENT AND GRADING- *Please reference Academic Policies and Procedures full Policy*

AESTHETIC EVALUATION

Aesthetic Evaluation Relates to your composition, design, and aesthetic approach as well as the originality and degree of creativity demonstrated in the execution of your project.

CONCEPTUAL EVALUATION

Encompasses how well you understood the technical issue followed the parameters given and attention to the details necessary for achieving the best solution. Evaluation on troubleshooting skills for hardware and software.

TECHNICAL/ CRAFTSMANSHIP

You will be evaluated on how well you apply your technical skills, follow through, your attention to finer details of your execution including how well the project is technically put together and the appropriateness of those choices.

LEARNING STRUCTURE

- 320 Clock Hours- Core Curriculum
- 40 Clock Hours- Health & Safety and Job Readiness
- 240 Clock Hours- Externship

LEARNING OUTCOME

Each week will feature an interactive assignment and/or project that illustrates the section they have learned.

SOFTWARE

Pyhton, Scala, TensorFlow, PyTorch, spaCy, Django, Streamlit, Flask, Apache NiFi, Microsoft, Cengage, Canvas LMS and Campus Café

ATTENDANCE

Attendance on a daily basis is a mandatory requirement for all students. Any class session or activity missed, regardless of cause, reduces the opportunity for learning and may adversely affect a student's achievement. Students are responsible to instructors for class attendance and for any class work missed during an absence. Student is responsible to catch up on the missing material on his/her own by contacting fellow classmates or instructor.