

APPLIED NATURAL LANGUAGE PROCESSING

NLP, LLMS, TRANSFORMERS & CONVERSATIONAL AI

AI Era Job Ready Skills

Applied Natural Language Processing is a 24-week intensive program that trains students to build and deploy language AI systems using modern NLP techniques, transformer architectures, and large language models. Students master text classification, named entity recognition, sentiment analysis, RAG systems, and conversational AI. Graduates are prepared for roles as NLP Engineers, AI Researchers, and Conversational AI Developers.

"Master NLP, transformers, and LLMs for real-world language AI applications"

24 WEEKS

DURATION

288

CONTACT HOURS

11.5

CREDIT HOURS

\$7,200.00

TOTAL PROGRAM COST

2+

CERTIFICATIONS

TWC Licensed

#S6776

WIOA Approved

Funding Available

Monthly Intakes

Enroll Anytime

DURATION: 24 Weeks

TUITION: \$7,200.00

NEXT COHORT: Monthly Intakes

PROGRAM HIGHLIGHTS

- ✓ Live Instructor-Led Training
- ✓ Hands-on Labs & Real-World Projects
- ✓ Career Support Services
- ✓ Industry Certification Prep (2 Vouchers)
- ✓ WIOA Funding Available
- ✓ TWC Licensed (#S6776)

CAREER PATHWAYS

- NLP Engineer
- LLMOps Engineer
- Agentic AI Developer
- Text Analytics Engineer
- LLM Application Developer
- AI Product Developer

WORK ENVIRONMENTS

- Tech Companies
- Healthcare (Clinical NLP)
- Legal Tech
- Media & Publishing
- Customer Service AI
- Research Labs

LATEST TOOLS & TECHNOLOGIES (2025–2026)

- Hugging Face
- LangGraph
- Flowise
- LangChain Agents
- OpenAI GPT-4o
- Google Gemini
- Databricks Vector Search
- Pinecone
- LlamaIndex
- NVIDIA NeMo

ADMISSIONS REQUIREMENTS

- High school diploma or GED required
- Basic Python programming knowledge
- Recommended: Introductory statistics or data analysis
- Background check required prior to enrollment

PROGRAM OUTCOMES & EARNING POTENTIAL

- ✓ **Job Placement Support**
Career coaching & resume prep
- ✓ **Industry Certifications**
2+ globally recognized certs
- ✓ **WIOA Eligible**
100% tuition coverage available
- ✓ **Real-World Projects**
Live client project experience
- ✓ **Flexible Schedule**
6 cohort options per week
- ✓ **TWC Licensed**
Texas Workforce Commission #S6776

• TWC Licensed #S6776 • WIOA Approved • Monthly Intakes • 100% Hands-On • Job Placement Support •

NLP FOUNDATIONS TRACK

ANLP 101 Fundamentals of NLP & Linguistic Pro...

Weeks 1–2 | Lec 6 Hrs / Lab 12 Hrs / Ext 0 Hrs | 18 Total Hr...

- Understand linguistic structures (tokens, lemmas, POS tags).
- Implement text preprocessing techniques (tokenization, ste...
- Build basic NLP pipelines for language processing.

Tools: NLTK, SpaCy

ANLP 102 Text Classification & Sentiment Analysis

Weeks 3–4 | Lec 6 Hrs / Lab 12 Hrs / Ext 0 Hrs | 18 Total Hr...

- Design machine learning models for text classification tasks.
- Implement Naïve Bayes, SVM, and Logistic Regression for ...
- Analyze and build sentiment analysis systems.

Tools: Scikit-learn, SpaCy

CORE NLP TRACK

ANLP 103 Word Embeddings & Topic Modeling

Weeks 5–6 | Lec 6 Hrs / Lab 12 Hrs / Ext 0 Hrs | 18 Total Hr...

- Generate dense word representations using Word2Vec, Glo...
- Apply topic modeling algorithms (LDA, NMF) for corpus anal...
- Visualize and interpret semantic spaces.

Tools: Gensim, Scikit-learn

ANLP 104 Transformers, BERT, GPT & LLMs

Weeks 7–8 | Lec 6 Hrs / Lab 12 Hrs / Ext 0 Hrs | 18 Total Hr...

- Understand Transformer architectures and attention mecha...
- Fine-tune BERT and GPT models for classification, Q&A, a...
- Deploy LLMs for basic inference tasks.

Tools: Hugging Face Transformers, TensorFlow

CURRICULUM HIGHLIGHTS

✓ Hands-On Labs

Every module includes real cloud lab exercises

✓ Industry Tools

Learn with the same tools used by top employees

✓ Live Instruction

Expert-led sessions, online and in-person

✓ Project-Based

Build portfolio-ready projects each week

✓ Certification Prep

Included exam vouchers for 2+ certifications

✓ Career Support

Resume, LinkedIn, and interview coaching

- Live Instructor-Led
- Real-World Projects
- Industry Certifications
- WIOA Approved
- Job Placement Support

ADVANCED LLM TRACK

ANLP 105 Prompt Engineering & LLMops

Weeks 9–10 | Lec 6 Hrs / Lab 12 Hrs / Ext 0 Hrs | 18 Total Hrs

- Apply prompt engineering and Agentic reasoning (ReAct) techniques.
- Optimize prompts for better model outputs.
- Learn LLMops best practices for model maintenance.

Tools: OpenAI API, Hugging Face, LangChain, LangGraph

ANLP 106 Retrieval-Augmented Generation (RAG)

Weeks 11–12 | Lec 6 Hrs / Lab 12 Hrs / Ext 0 Hrs | 18 Total Hrs

- Design advanced RAG and Agentic AI pipelines.
- Implement vector databases (FAISS, Pinecone) for retrieval.
- Integrate search and generation workflows.

Tools: FAISS, Pinecone, Databricks Vector Search

ANLP 107 Speech Processing & Real-Time NLP

Weeks 13–14 | Lec 6 Hrs / Lab 12 Hrs / Ext 0 Hrs | 18 Total Hrs | 0.8 Credit Hours

- Build speech-to-text and text-to-speech (TTS) systems.
- Apply real-time transcription using open-source tools.
- Integrate voice AI into NLP applications.

Tools: Mozilla DeepSpeech, AssemblyAI API

APPLICATIONS & CAPSTONE TRACK

ANLP 108 Multimodal NLP (Text + Vision + Speech)

Weeks 15–17 | Lec 9 Hrs / Lab 18 Hrs / Ext 0 Hrs | 27 Total Hrs | 1.2 Credit Hours

- Combine NLP, vision, and audio modalities in AI systems.
- Work with CLIP models and multimodal datasets.
- Build applications combining image, text, and audio inputs.

Tools: OpenAI CLIP, Google Gemini, NVIDIA NeMo

WIOA APPROVED PROGRAM

Zero-Cost AI & Cloud Training JOB-READY SKILLS FOR THE AI ERA

100% Tuition Coverage for WIOA-eligible residents of Texas & Louisiana.

(More states coming soon!)

Not WIOA eligible? Ask about flexible 7–36 months financing or one-time payment discounts.

TWC Licensed (#S6776)

Live (Online/In-Person)

Real-World Projects

Industry Certified



John Enoch (MSc)
AI GOVERNANCE LEAD & CHIEF AI ARCHITECT

- Authority: Microsoft MVP | Engineering Hiring Manager
- Global Footprint: Microsoft & IBM (Principal Architect)
- Elite Education: MIT (AI Modeling), Stanford (Strategy)



Dr. Paul Idowu (PhD)
RESEARCH AUTHORITY & FACULTY LEAD

- Authority: PhD in AI Systems | 390+ Google Scholar Citations
- Elite Academic Pedigree: PhD Pattern Recognition & AI
- Technical Domain: NLP for 130+ African Languages



Devonte Sykes (MSc)
DIGITAL TRANSFORMATION

- Authority: Senior Cloud Architect @ Microsoft
- Elite Academic Pedigree: MSc Information Technology (UCF)
- Technical Domain: Azure IaaS/PaaS, Cloud Migration



Abiodun Olatunji, MBA
ENTERPRISE STRATEGIST & CLOUD AUTHORITY

- Authority: Senior Specialist, Cloud & AI @ Microsoft
- Elite Academic Pedigree: MSc Information Systems, MBA
- Technical Domain: Azure Synapse, Databricks, Big Data



Taiwo Olatunde (MSc)
DATA ARCHITECTURE & ENGINEERING LEAD

- Authority: Microsoft Fabric Expert | Technical Lead
- Elite Academic Pedigree: MSc Business Analytics (UNT)
- Technical Domain: Microsoft Fabric, ETL/ELT Pipelines



Syed Ishaq Ali, MBA
BI STRATEGIST & FINANCIAL ANALYTICS

- Authority: 15-Year Financial Sector Veteran | PMP®
- Global Footprint: Bank of Montreal (BMO), Scotiabank
- Technical Domain: Financial Forecasting, SQL, Power BI



Vaishali Singh
AI & MACHINE LEARNING SPECIALIST

- Authority: Lead AI Engineer
- Technical Domain: Deep Learning, Computer Vision
- Global Footprint: Fortune 500 Tech Companies



Dr. Ibrahim Olokodana
DATA SCIENCE & ANALYTICS EXPERT

- Authority: PhD in Data Science
- Technical Domain: Predictive Modeling, Statistical Analysis
- Elite Academic Pedigree: Advanced Research in ML



Abdullahi Olapojoye
CLOUD INFRASTRUCTURE ARCHITECT

- Authority: Senior Cloud Engineer
- Technical Domain: AWS, GCP, Kubernetes, Terraform
- Global Footprint: Enterprise Cloud Migrations



Mackay Ogunleye
CYBERSECURITY & COMPLIANCE LEAD

- Authority: CISSP, CISM Certified Expert
- Technical Domain: Network Security, Threat Intelligence
- Global Footprint: Global Financial Institutions



Sai Sudha Malluru
SOFTWARE ENGINEERING & DEVOPS

- Authority: Principal Software Engineer
- Technical Domain: CI/CD, Microservices, Agile
- Global Footprint: Leading Tech Startups



Solomon Adegboye
FULL STACK DEVELOPMENT LEAD

- Authority: Senior Full Stack Developer
- Technical Domain: React, Node.js, System Design
- Global Footprint: E-commerce & SaaS Platforms

WORK WITH NVIT BUILDERS



Real-World Projects: This training is 100% hands-on. You will work directly with NVIT builders who support clients across North America. Gain experience on live projects, solving actual business challenges — not just theoretical exercises.

CERTIFICATIONS & VOUCHERS

NVIT Certificate + 2 Industry Certifications (Vouchers Included)

Graduates receive the NVIT Certificate of Completion plus Exam Vouchers to write and pass globally recognized certifications from this list:

- AWS Certified Machine Learning – Specialty
- Microsoft Certified: Azure AI Fundamentals (AI-900)
- Google Professional Machine Learning Engineer
- NVIDIA DLI: Fundamentals of Deep Learning
- Hugging Face NLP Course Certificate
- DeepLearning.AI NLP Specialization

STANDALONE FEE BREAKDOWN

1. Instructional Tuition	\$6,170.00	
2. Registration Fee	\$50.00	<i>(One-time, non-refundable)</i>
3. Books & Supplies	\$500.00	<i>(Cloud labs, software, e-books)</i>
4. Background Check	\$150.00	<i>(Security clearance processing)</i>
5. Professional Exam Vouchers	\$330.00	<i>(2 Vouchers Included)</i>
TOTAL PROGRAM INVESTMENT	\$7,200.00	

2026–2027 COHORT SCHEDULE

Cohort Name	Days	Time	Format
Alpha / Nova / Forge	Mon – Wed	9:30 AM – 12:30 PM	Morning Session
Helix / Array / Delta	Mon – Wed	1:30 PM – 4:30 PM	Afternoon Session
Photon / Pipeline / Fabric	Mon – Wed	6:00 PM – 9:00 PM	Evening Session
Beta / Snow / Grid	Thu – Sat	9:00 AM – 12:30 PM	Weekend Morning
Cloud / Lambda / Sigma	Thu – Sat	1:30 PM – 4:30 PM	Weekend Afternoon
Nebula / Data / Voyager	Thu – Sat	6:00 PM – 9:00 PM	Weekend Evening

ADMISSIONS & NEXT STEPS

Ready to Apply? Contact our admissions team to secure your spot in the next cohort.
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info@nvit.tech
+1 (214) 407-7229