BAFAI
BLOOM ACADEMY FOR AI

Data Annotation Curriculum

Industry-Relevant AI Training for Career Advancement

Course Objective

Develop foundational to intermediate professional skills in data annotation across text, image, audio, and video modalities – with strong emphasis on quality control, guideline writing, inter-annotator agreement, ethics, and project coordination in the AI data pipeline.

Monthly Salary Expectation

Nigeria
₦450,000 – ₦1,200,000

Canada
$3,300 – $4,200 (CAD)

United States
$3,400 – $4,150

Denmark
DKK $2,900 – DKK $4,600

United Kingdom
£2,080 – £2,920

Kenya
$330 – $830

Learning Model

Course Mode
Online and Project-based

Course Duration
12 weeks

Programme Level
Beginner to Intermediate

Certificate
Certificate of completion

Module 01
Foundations of Data Annotation

- What is data annotation?
- The AI/ML data pipeline explained simply
- Why annotation quality impacts model performance
- Overview of annotation types (classification, tagging, bounding boxes, segmentation)
- Introduction to common annotation roles
- Overview of tools:

Label Studio

CVAT

Module 02
Text Annotation Fundamentals

- Text classification basics
- Named Entity Recognition (NER)
- Sentiment labelling
- Intent classification
- Handling ambiguous text
- Introduction to annotation guidelines

Hands-on: Annotate a small text dataset and compare results.

Module 03

Image Annotation Fundamentals

- Bounding boxes (basic object detection)
- Polygons for irregular shapes
- Introduction to segmentation
- Common image annotation errors
- Visual consistency standards

Hands-on: Annotate an object detection dataset.

Module 04

Audio & Video Annotation Basics

- Audio transcription principles
- Timestamping and speaker identification
- Intro to video frame annotation
- Frame sampling basics
- Object tracking fundamentals

Hands-on: Annotate short audio and video clips.

Module 05

Writing Annotation Guidelines

- Descriptive vs inferential statistics
- Probability basics for ML
- Sampling & bias
- Statistical significance
- Confidence intervals
- Hypothesis testing basics
- Understanding p-values
- Correlation vs causation

Hands-on: Run statistical tests comparing two models..

Module 06

Quality Assurance & Inter-Annotator Agreement

- Why QA matters
- Common quality issues
- Introduction to Inter-Annotator Agreement (IAA)
- Cohen's Kappa (conceptual level)
- Basic agreement calculation exercises
- Creating small "gold standard" datasets

Hands-on: Measure agreement across student annotations.

Module 07

Project Management in Annotation

- Annotation project lifecycle
- Scoping dataset size
- Task assignment & workload planning
- Crowdsourcing vs in-house annotation
- Revision cycles

Module 08

Ethics & Responsible Data Labelling

- Data privacy principles
- Handling sensitive content
- Annotator wellbeing
- Bias in annotation
- Cultural sensitivity in labelling
- NDAs and confidentiality basics

Module 09
Scaling & Advanced QA

- Scaling annotation projects
- Sampling strategies for QA
- Error pattern detection
- Reviewer workflows
- Performance tracking metrics
- Continuous improvement cycles

Hands-on: Improve a previously annotated dataset.

Capstone Research Development
End-to-End Annotation Sprint

- Select a dataset (text, image, audio, or video)
- Design annotation scheme
- Write professional annotation guidelines
- Annotate at least 150 samples
- Conduct QA review
- Calculate inter-annotator agreement
- Produce full project report
- Deliverables:
- Guidelines document
- Annotated dataset
- QA & agreement report
- Reflection on challenges

Project Defence

Personal Project Presentations

Note:

- **All modules, project work, project defense, and grading work will be completed in a total of 12 weeks from the course start date.**

Certificate Sample

BAFAI
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CERTIFICATE OF COMPLETION
IN DATA ANNOTATION

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Emeka Adediran Audu

Who has successfully completed the Agentic AI course comprising: Foundations of Data Annotation, Image Annotation Fundamentals, Audio & Video Annotation Basics, Writing Annotation Guidelines, Quality Assurance & Inter-Annotator Agreement and Project Management in Annotation

Dr. Lola Olukuewu
Certified Chief Artificial Intelligence Officer
Founder, BAFAI

Mrs. Tolu Akinjole
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