AKAM NAWZAD OTHMAN

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EDUCATION

University of Kurdistan - Hewlêr (UKH)   Erbil, Iraq
Bachelor of Science in Software Engineering   2021 – Present

Ovanya AI Bootcamp   Erbil, Iraq
Intensive training in AI/ML, neural networks, and practical AI applications   2024

Paramount (English-medium) High School   Erbil, Iraq
Top 6%, 94.33/100 at National Baccalaureate Exams   2020 – 2021

EXPERIENCE

Web Developer   Erbil, Iraq
Freelance   2024 – Present

– Designed and developed responsive websites for local businesses including London Towers Erbil

– Focused on clean UI design, optimized performance, and cross-browser compatibility

AI Research Intern   Erbil, Iraq
UKH AI Center   Sept 2024 – Oct 2024

– Collected and processed over 140,000 Kurdish news articles using web scraping techniques (Beautiful Soup, Scrapy)

– Created datasets for NLP research and assisted with model training for Kurdish language processing

Frontend Developer Intern   Erbil, Iraq
Standing Tech   July 2024 – August 2024

– Maintained and improved frontend components of production websites

– Collaborated with cross-functional teams to improve UX and maintain agile development workflows

PROJECTS

Kurdish Named Entity Recognition (NER) System   2025
NLP, Transformers, XLM-RoBERTa, PyTorch, Hugging Face

– Fine-tuned `xlm-roberta-base` for Kurmanji Kurdish NER on a custom-labeled dataset (~6k sentences), achieving an F1 score of ~0.80 on PER/LOC/ORG/MISC classes.

– Managed the full pipeline: annotation (Label Studio), BIO formatting, tokenization, model training, and deployment on Hugging Face Hub.

– Advanced NLP resources for Kurmanji Kurdish, a low-resource language, by releasing a public transformer-based NER model.

– *Model:* huggingface.co/akam-ot/ku-ner-xlmr

Kurdish Dialect Classifier   2025
Machine Learning, NLP, Text Classification

– Built a dialect classification model to distinguish between Sorani and Kurmanji Kurdish in Arabic script

– Trained a Logistic Regression classifier using TF-IDF vectorization and manually labeled dataset

– Deployed with a Gradio interface for interactive predictions

– Achieved 92% accuracy on test set distinguishing between Sorani and Kurmanji dialects

– *Live at:* huggingface.co/spaces/akam-ot/kurdish-dialect-classifier

Shakespeare Text Generation with GPT-2   2024
NLP, AI/ML, PyTorch, Transformers

– Fine-tuned GPT-2 on Shakespearean texts to generate stylistically accurate prose

– Utilized the Karpathy/tiny_shakespeare dataset and HuggingFace Transformers

Titanic Survival Prediction   2024
Machine Learning, Data Science, Python

– Predicted Titanic passenger survival using Logistic Regression, Random Forest, and SVM
  – Performed feature engineering on names, family size, and ticket data
  – Achieved 83.3% accuracy using Random Forest with cross-validation

Kurdish News Dataset for NLP   2024
Web Scraping, Python, Data Processing
  – Collected and processed over 140,000 Kurdish news articles using Beautiful Soup and Scrapy
  – Created a valuable dataset for Kurdish NLP research

Gorrer - Kurdish Transliterator   2025
Python, Flask, Regex, UI/UX Design
  – Developed a web tool for Kurdish script conversion between Arabic and Latin
  – Handled linguistic features like bizroke insertion for accurate transliteration
  – *Live at:* gorrer.vercel.app

DarshtnAI – Kurdish Essay Generator   2025
Full Stack Development, Vue.js, UI/UX Design
  – Built a simple full-stack web app using the Gemini API to generate Kurdish essays based on user prompts
  – Designed a clean and responsive UI for ease of use and clarity
  – *Live at:* darshtnai.vercel.app

KurdType   2025
Vue.js, UI/UX Design, Web Development
  – Designed and built a Vue.js-based platform for discovering and downloading open-licensed Kurdish fonts
  – Focused on clean, accessible typography and intuitive UX for Kurdish content creators
  – Live at: kurdtype.vercel.app

Portfolio Website   2025
Web Development, UI/UX Design
  – Designed and developed a minimal, responsive personal website to showcase projects
  – Hosted on GitHub Pages: akam-ot.github.io

London Towers Erbil Website   2025
Web Development
  – Designed and built a professional website for a local real estate development
  – *Live at:* londontowerserbil.com

SKILLS

Natural Languages: Kurdish (Native), English (Fluent), Arabic (Intermediate)

Programming Languages: Dart, Python, JavaScript, PHP, C++, Java, SQL

Frontend: HTML/CSS, JavaScript, Vue.js, UI/UX Design, Figma, Tailwind CSS

Backend & Databases: Python, Flask, PHP, Node.js, Express.js, REST APIs, MySQL

AI & Data Science: Machine Learning, Deep Learning, NLP, Transformers, HuggingFace, PyTorch, TensorFlow, scikit-learn, Pandas, NumPy, Data Analysis, Feature Engineering, Web Scraping (BeautifulSoup, Scrapy), Regex, Label Studio

Tools & Technologies: Git/GitHub, Render, Jupyter Notebooks, Google Cloud, Vercel, Netlify, Postman, Flutter (Learning)