

MOHAMMAD OWAIS

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Portfolio: owais-dev-port.app

Summary

Data Science and AI enthusiast with experience in Machine Learning and Natural Language Processing. Proficient in building nlp pipelines and end-to-end model deployment, including personalized search systems and image classification.

Technical Skills

Languages: Python, C++, Java, C,

AI/ML & NLP: Vector Embeddings, Semantic Search, CNNs, Data Processing,

Frameworks & Libraries: PyTorch, TensorFlow, Scikit-learn, Sentence-Transformers, FAISS, Pandas, NumPy

Projects

- **Personalized Context-Aware Gaming Search Engine** | *Python, Flask, React, FAISS*
 - Developed a full-stack search engine providing role-based results for Gamers and Developers.
 - Engineered dedicated web spiders for automated data collection from IGN, GameSpot, and WorkWithIndies.
 - Implemented Selenium and Undetected-Chromedriver to bypass advanced anti-bot measures on dynamic websites.
 - Utilized Sentence-Transformers to generate 384-dimension semantic vector embeddings for document processing.
 - Built a high-speed retrieval index using FAISS (Facebook AI Similarity Search) with L2 distance metrics.
 - Developed a personalization layer to re-rank search results based on user-defined industry roles.
- **Image Classification using CNN** | *Python, TensorFlow*
 - Developed a Convolutional Neural Network (CNN) for high-accuracy image classification tasks.
 - Applied data augmentation techniques to enhance model generalization and overall performance.

Education

- **Bachelor of Technology in Computer Science and Engineering**
- Relevant Coursework: Artificial Intelligence, Data Structures & Algorithms, Linear Algebra, DBMS.

Professional Certifications & Qualifications

- Qualified GATE 2025 in Data Science & AI (DA).
- Cisco Certified Network Associate (CCNA).