ROSHAAN AHMED
BACHELORS IN ARTIFICIAL INTELLIGENCE

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A skilled AI/ML engineer with strong problem-solving abilities and a results-driven mindset, adept at navigating complex challenges while maintaining a collaborative approach.

SKILLS

- Ai model Development
- Machine learning
- Computer Vision
- Natural language processing
- Data Analytics
- Sentiment Analysis
- Deep Learning
- CNN
- RAG
- LangGraph
- LangSmith
- Python
- FireBase
- Java
- Kotlin
- Flutter

WORK EXPERIENCE

Zikra Info Tech LLC | Trainee AI Developer & Researcher   **May 2025-June 2025**

Worked as an AI Developer and Researcher at Zikra Info Tech, implementing a complete RAG pipeline using LangGraph and the ReAct template. Evaluated LLM APIs (Groq, Mistral, Gemini) via LangSmith for latency, accuracy, and retrieval performance analysis.

Systems LTD | Intern AI-Driven Kotlin App Developer   **July 2024-Aug 2024**

Develop and maintain Kotlin-based mobile apps, collaborating with the team to deliver innovative solutions. Gained hands-on experience in coding, integration of quantized AI models using TensorFlow Lite Framework, debugging, and API integration.

Beats By Dre | Intern Data Analyst   **Sept 2024-Nov 2024**

- Extract insights from customer reviews and sales data using Python (Pandas, NLP) and advanced analytics.
- Performed analysis and visualizations (Matplotlib, Seaborn) to drive data-informed business decisions.
- Apply statistical modeling and machine learning to identify trends, sentiment, and opportunities for growth.

PROJECTS

Encroachment Detection Using Computer Vision | CNN | YOLO   Github Link
- Developed a website to detect land encroachments using site maps and Google Maps images.
- Implemented object detection using TensorFlow, OpenCV, and YOLO (Ultralytics).
- Utilized Flask for backend integration and SK-learn for additional machine learning tasks.
- Enhanced detection accuracy with advanced segmentation and preprocessing techniques.

Emotion Recognition System | CNN Architectures | DenseNet | ResNet   Github Link
- Designed a real-time emotion recognition system using Convolutional Neural Networks (CNN).
- Implemented OpenCV for facial detection and Keras for deep learning model training.
- Used SK-learn for preprocessing and feature extraction to improve model accuracy.
- Enabled live emotion tracking via webcam, enhancing interactive AI applications.

Pastprep Using NLP | RAG | Lang chain   Github Link
- Developed a website for solving Cambridge past papers with AI-driven answer evaluation.
- Integrated a chatbot using Transformers and NLP (NLTK, RAG) for interactive learning.
- Used TensorFlow and PyTorch for building and fine-tuning the answer assessment model.
- Implemented API integration for seamless user experience and automated result generation.

Conversational Sales Agent System | Google ADK | LangGraph | Multi-Agent | RAG   Github Link
- Developed an AI-powered sales agent using Google's Agent Development Kit to handle concurrent lead interactions via a multi-agentic architecture.
- Conducted extensive EDA and preprocessing on user inputs to enhance data quality and analytics
- Designed agentic workflows using LangGraph with session persistence, context tracking, and asynchronous cross-agent interaction
- Integrated vector database (FAISS) for context retrieval and history-aware dialogue continuity
- Leveraged LangSmith for evaluation, prompt versioning, and performance tracking
- Automated data handling with CSV storage (lead_id, status, interest)

Developed a Text Summarizer | NLP | Transformers | Pytorch | Hugging Face   Github Link
- Built an abstractive text summarizer using T5-small transformer for concise, human-like summaries
- Fine-tuned model on news datasets using Hugging Face, PyTorch, and NLP techniques
- Optimized inference speed with model quantization for efficient deployment

EDUCATION

BACHELOR OF ARTIFICIAL INTELLIGENCE | FAST (N.U.C.E.S)   **Sept 2021-June 2025**

Matriculation | HABIB PUBLIC SCHOOL-AKU board   **Aug 2009-June 2019**

ACHIEVEMENTS & CERTIFICATIONS

- **NED Ai Fest 4.0** Winner   **July 2021**
- Participant in **NASA International Space Apps Challenge**   **July 2022**
- Runner-up **IBA Hackfest-Datathon Gen-Ai Competition**   **April 2025**
- **GEN AI - Certification |** Datacamp   **April 2025**
- **Large-Language-models-llms-Development** | Datacamp   **April 2025**