



## OBJECTIVE

As an AI Engineer, I specialize in crafting intelligent systems that encompass cutting-edge chatbots, voice agents, and predictive models. My expertise leveraging Large Language Models (LLM) and Natural Language Processing (NLP) to develop and deploy real-time AI solutions. I am proficient in Python and well-versed in utilizing contemporary frameworks to deliver innovative and efficient artificial intelligence applications

## EXPERIENCE

AI-Engineer | CareCloud

February 2025 - Present

### Agentic RAG Chatbot – Company Handbook Assistant:

- Built a chatbot using LangChain to retrieve context-aware responses from employee handbooks and company websites.
- Integrated a RAG pipeline with FAISS-based vector search, enabling dynamic query handling with LLM reasoning.

### Real-Time Voice Agent – Outbound AI Call Operator:

- Developed an autonomous voice agent using LangGraph to initiate outbound calls and converse with users for information collection.
- Integrated voice activity detection (VAD), turn detection, speech-to-text (STT), and text-to-speech (TTS) for natural, turn-based conversations with error handling.

Internship at KaiRiz Cyber Technology (Remote)

July 2024 - August 2024

AI Department

### Predictive Modeling on the Titanic Dataset:

- Analyzed and preprocessed the Titanic dataset to ensure data quality.
- Trained and evaluated machine learning models, achieving an accuracy of over 85% with a Random Forest classifier.

### AI-Powered Chatbot Development:

- Developed a chatbot using Natural Language Processing (NLP) techniques.
- Implemented text preprocessing and trained the chatbot to improve its conversational abilities.
- Integrated the chatbot with a Flask web application for real-time user interaction.

## EDUCATION

Bahria University, Islamabad

Bachelor of Science in Computer Science | CGPA: 2.81/4.00

2021 - 2025

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## PROJECTS

### Pose Perfect Injury Guard (FYP):

- Developed a mobile app using AI-based pose detection to correct exercise form and estimate injury risk.
- Integrates computer vision and machine learning for real-time feedback.
- Enhances user safety and workout efficiency with pose estimation models.

### PanNuke Challenge (Digital Image Processing):

- Implemented semantic segmentation on the PanNuke dataset using a machine learning model.
- Applied image processing techniques to accurately segment and analyze medical images.
- Improved model performance through advanced machine learning algorithms.

### Image Classification Project (Machine Learning):

- Created an image classification system using logistic regression and SVM models.
  - Achieved high accuracy in categorizing diverse image datasets.
  - Utilized machine learning algorithms for effective image analysis.
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## SKILLS

### Programming Languages:

- Python
- C/C++
- SQL

### DevOps & Deployment:

- Git
- GitHub Actions
- Docker

### Skills

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|--------------------|-----------------|--------------------|
| • MACHINE LEARNING | • DEEP LEARNING | • NLP              |
| • COMPUTER VISION  | • VOICE AGENTS  | • PANDAS           |
| • NUMPY            | • SCIKIT-LEARN  | • PYTORCH          |
| • TENSORFLOW,      | • KERAS         | • OPENCV           |
| • HUGGINGFACE      | • LANGCHAIN     | • KNOWLEDGE GRAPHS |
| • LANGGRAPH        | • WEB SCRAPING  |                    |
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