

ZIA AHMAD AYOOB

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Summary

Artificial Intelligence undergraduate with internship experience and Python projects in machine learning, computer vision, and AI applications. Hands-on experience with data preprocessing, model development and testing, and building applications with FastAPI and Streamlit. Project work includes document-based chatbots, object detection, and text classification. Seeking entry-level AI and machine learning opportunities.

Experience

Agentic AI Intern

Jun 2026 – Sep 2026

AgenticSense

Internship

- Prepared and analyzed data to support AI and machine learning projects.
- Assisted with model development and testing as part of the team's AI project workflow.
- Collaborated with team members on AI solutions while gaining practical experience with AI tools and agentic AI development.

Artificial Intelligence Intern

May 2026 – Jun 2026

DevelopersHub Corporation

Remote, Karachi, Pakistan

- Completed a six-week AI and machine learning engineering internship with practical project work.
- Applied AI and machine learning concepts to internship projects with guidance from the team.
- Received the "Best Award" for internship performance and contributions.

Artificial Intelligence Intern

Feb 2026 – May 2026

Saylani Mass I.T Training (SMIT) – BootCamp 4.0

Karachi, Pakistan

- Used FastAPI to develop APIs for AI projects.
- Worked on retrieval-augmented generation (RAG) workflows to retrieve relevant information for AI-generated responses.
- Contributed to multiple computer vision projects during the AI bootcamp.

Projects

Business Intelligence Data Extraction Pipeline

2026

Python, Playwright, Requests, BeautifulSoup, OpenPyXL

- Built multi-source web scraping pipelines to collect and standardize **thousands of business and lead records** from public directories and regulatory portals.
- Implemented **profile crawling, pagination, retries, checkpoint/resume, deduplication, and failure logging** for reliable long-term data collection.
- Structured fields extracted **that include company details, sectors, locations, emails, phone numbers, websites, contacts, and services**.
- Added **data validation and recovery mechanisms** to handle dynamic pages, missing records, duplicate entries, and pagination anomalies.

AI-Driven WhatsApp Support Agent

2026

Python, Google Gemini, FastAPI, PostgreSQL, pgvector, Next.js

- Built a WhatsApp support application that uses Google Gemini and document retrieval to answer questions from a knowledge base.
- Implemented retrieval-augmented generation (RAG) with document fragments and vector search to provide relevant context for responses.
- Created an admin dashboard and 13+ API endpoints for chat monitoring, document management.

AI Workplace Monitoring System <i>Python, YOLOv8, ByteTrack, OpenCV, dlib</i> - Built a video application to detect and track people using YOLOv8 and ByteTrack. - Added face recognition to identify registered employees and connect their identities to tracking results. - Created break-duration logs and alerts for prolonged absences from assigned seats.	2026
AI-Powered Data Entry System <i>Python, large language models, FastAPI</i> - Built a multi-agent workflow to classify documents, extract fields, validate information, and create database entries. - Used language models to convert information from forms, documents, and emails into structured records.	2026
MoodCare AI – Mood Tracking Application <i>Google Gemini, PyTorch, FAISS, FastAPI, React, MySQL</i> - Built a full-stack application with a six-agent workflow for conversation, mood tracking, memory retrieval, and insights. - Added semantic search over past conversations and a PyTorch model to explore next-day mood prediction from a user's mood history.	2025
Spam Filtering – Data Structures and Algorithms Project <i>Python, Naive Bayes, Streamlit</i> Implemented a Naive Bayes text classifier from scratch using word frequencies and Bayes' theorem, with a Streamlit interface for spam detection.	2025
Road Damage Detection <i>Python, YOLOv11, computer vision</i> - Trained an object detection model on a self-collected dataset of 900+ images, achieving approximately 90% mAP@0.5 in project evaluation. - Implemented video inference to detect road damage in real time.	2024
Education	
Bachelor of Science in Artificial Intelligence Sir Syed University of Engineering & Technology, Karachi	Expected Jul 2028 Oct 2024 – Present
Relevant coursework: Machine Learning, Artificial Intelligence, Data Structures and Algorithms, Probability and Statistics, Data Science, Linear Algebra.	
Higher Secondary Certificate – Pre-Engineering Government National College, Karachi, Pakistan	Aug 2022 – Jul 2024
Certifications	
Google IT Automation with Python Specialization (Google); Google Data Analysis (Google); Google Prompting Essentials (Google); AI For Everyone (DeepLearning.AI); Python for Data Science (Google); Python 101 for Data Science (Sololearn).	
Technical Skills	
Programming: Python, JavaScript. Machine learning and data: Pandas, NumPy, scikit-learn, PyTorch, data preprocessing. AI applications: Google Gemini, Claude, RAG, multi-agent workflows, FAISS, pgvector. Computer vision: OpenCV, YOLOv8, YOLOv11, ByteTrack, object detection. Development tools: FastAPI, Streamlit, React, Next.js, REST APIs, Git, Jupyter Notebook. Databases: PostgreSQL, MySQL, MongoDB	