

# SAAD SHAKEEL

+92 311-5307530 | [linkedin.com/in/saad-shakeel12](https://www.linkedin.com/in/saad-shakeel12) | [github.com/Saad-Shakeel](https://github.com/Saad-Shakeel)  
[saadshakeel.work12@gmail.com](mailto:saadshakeel.work12@gmail.com) | [saad-shakeel-dev.vercel.app](https://saad-shakeel-dev.vercel.app)

## SUMMARY

I am an AI/GenAI Developer with hands-on experience building applications powered by large language models, retrieval-based systems, and intelligent agents. I create practical and scalable AI solutions using modern tools and cloud platforms. I focus on solving real-world problems and continually improving my AI/ML skills.

## WORK EXPERIENCE

### Junior AI Developer

Robotics World Pvt. Ltd - KP IT Park, Abbottabad

Mar 2026 - Present

Focused on building AI-based systems and developing RAG-powered chatbots. Created APIs using FastAPI and worked with vector databases such as Pinecone and MongoDB for efficient data storage and retrieval.

### Generative AI Developer (R&D) - Remote

Advanced Telecom Services (ATS) AI Lab - Washington, United States

Jan 2025 - Present

Focused on R&D in Generative AI and Large Language Models (LLMs), developing RAG-based applications, building AI agents, and improving reasoning and automation.

## EDUCATION & INTERNSHIP

### Bachelor of Science in Computer Science

Abbottabad University Of Science & Technology (AUST)

Nov 2021 - July 2025

CGPA 3.42/4.00. Completed a final year project, Currency Eye Application, designing and training models for currency detection and authentication, with a strong focus on artificial intelligence, machine learning, and practical software development.

### Data Science Intern - Remote

Advanced Telecom Services (ATS) AI Lab - Washington, United States

July 2024 - Dec 2024

Gained hands-on experience in Microsoft Azure, Big Data, and advanced data analysis, while actively exploring Large Language Models (LLMs) to derive insights from large-scale data and build impactful, real-world AI solutions.

## KEY PROJECTS

### Agentic RAG Systems

Technologies: LangChain, LangGraph, FAISS, Pinecone, MongoDB Atlas

- Developed multiple RAG pipelines using FAISS, Pinecone, and MongoDB Atlas, enabling efficient and scalable document retrieval.
- Built intelligent agents with memory and tool usage, improving retrieval accuracy through hybrid search and modular system design.

### AI-Powered Trip Planner

Technologies: LangGraph, Google APIs, Gmail Integration, Streamlit

- Developed an intelligent travel assistant with an agent-based architecture, integrating Google APIs for route planning, hotel recommendations, and itinerary sharing.
- Built a conversational interface with memory to generate personalized, day-wise travel plans with smart sequencing and local recommendations.

## Stock Market Intelligence Agent

Technologies: LangGraph, Streamlit, Yahoo Finance API

- Developed a real-time stock analysis dashboard and conversational agent for S&P 500 insights using agent-based workflows.
- Integrated financial data APIs to provide live prices, historical trends, and natural language interaction through an interactive Streamlit interface.

## PakCurrency VisionAI

Technologies: YOLOv11, VGG16, TensorFlow, OpenCV, Computer Vision

- Developed a real-time currency detection and authentication system using YOLOv11 and fine-tuned VGG16 models.
- Built an efficient deployment pipeline using ONNX and TensorFlow Lite for optimized production performance.

## EMOBEAT – Emotion-Driven Music Application

Technologies: YOLOv11, VGG16, TensorFlow, OpenCV, Computer Vision

- Developed a real-time currency detection and authentication system using YOLOv11 and fine-tuned VGG16 models.
- Built an efficient deployment pipeline using ONNX and TensorFlow Lite for optimized production performance.

## TECHNICAL SKILLS

- **Generative AI & LLMs:** LangChain, LangGraph, CrewAI, Hugging Face, Transformers, BERT, Large Language Models (LLMs), RAG Systems, AI Agents, Prompt Engineering
- **Machine Learning & Deep Learning:** Model Training, Fine-tuning, YOLOv11, Object Detection, Image Classification, OpenCV
- **Backend Development:** FastAPI, REST APIs, Streamlit
- **Cloud & MLOps:** Microsoft Azure, AWS, Docker, Git, GitHub, Model Context Protocol (MCP), Agent Communication Protocol (ACP)
- **Databases & Vector Stores:** Pinecone, MongoDB Atlas, FAISS
- **Languages:** English (Fluent), Urdu (Native)

## LICENSES & CERTIFICATIONS

### AI & Generative AI

- Fundamentals of AI Agents Using RAG and LangChain – [Link](#)
- Building Autonomous AI Agents with LangGraph – [Link](#)
- Practical Multi AI Agents and Advanced Use Cases with crewAI – [Link](#)
- Finetuning Large Language Models – [Link](#)
- Transformer Models & BERT – [Link](#)
- Attention in Transformers (PyTorch) – [Link](#)

### Data & MLOps

- Google Advanced Data Analytics Specialization – [Link](#)
- MLOps Concepts – [Link](#)
- MLOps Deployment and Life Cycling – [Link](#)

### Tools & Automation

- Git & GitHub – [Link](#)
- ChatGPT + Zapier: Agentic AI Automation – [Link](#)