Islamabad, Pakistan

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EDUCATION

Islamabad	Institute of Space Technology	September 2020 – July 2024

- BS in Computer Science with CGPA: 3.18
- **Final Year Project**: **Synthium AI** is a SaaS platform that leverages Generative Adversarial Networks (GANs) to create high-quality synthetic tabular data, addressing critical challenges of data scarcity and privacy concerns in AI development. Tech stack: Python, FastAPI, Gretel-Synthetics, Synthetic Data Vault (SDV), PyTorch, Pandas, NumPy, Matplotlib, Scikit-Learn, Uvicorn, SQLAlchemy, PyMySQL, Google Drive API.
- **Research Paper**: Published at 26th Irish Machine Vision and Image Processing Conference (IMVIP 2024), titled "Leveraging GANs for synthetic tabular data generation: a platform-centric solution to data scarcity". Research Paper Link: https://doi.org/10.1049/icp.2024.3311

EMPLOYMENT

Dynamic Leo Information Technology

AI/ML Engineer & Team Lead	LLC	Aug 2024 – Present

dynamicleo.ae
Islamabad, Pakistan (Onsite)

- Founding team member and first engineering hire, contributing to initial company setup and technical direction.
- Led a strategic partnership with Sharjah Research Technology and Innovation Park (SRTIP), managing a team to successfully deliver over 200+ web development projects for SRTIP clients within 7 months.
- Developed a proof-of-concept computer vision-based drowsiness detection AI hardware device utilizing Raspberry Pi 5 and Coral AI HAT (neural accelerator).
- Engineered backend microservices using GraphQL for a Shopify drop shipping platform, deployed on cloud infrastructure.
- Provided oversight for mobile application development initiatives within the company.

Lead AI Product Engineer	Dotweb Agency	Feb 2024 – Present

dotweb.agency
Wyoming, United States (Remote)

- Served as Lead Product Engineer for ImmoIQ, an AI-driven SaaS platform automating leads and customer service for Swiss real estate agents.
- Developed and maintained large-scale industrial web scrapers collecting real estate data (>800K listings daily) across the DACH region (Germany, Austria, Switzerland).
- Built and trained machine learning models for real estate price prediction using the extensive scraped dataset.
- Implemented LLM-powered chatbots (Langchain, LlamaIndex, Qdrant, various models) performing customer service, legal advisory tasks, and lead capture via agentic workflows.
- Created automated tools for generating standardized real estate documents, improving realtor efficiency.

AI Product Developer	Reroute Services	Sept 2023 – Feb 2024

Cardiff, Wales (Remote)

- Developed generative AI-based automation software for automated lead capture and prospect engagement.
- Built and deployed an AI Sales Representative chatbot for businesses using WhatsApp API and Twilio integration.
- Created an AI Sales Rep website chatbot incorporating a real-time product recommendation engine.

PROJECTS

Founder & Technical Lead	**Markhorverse**	**Aug 2023 – Present**

markhorverse.com
Islamabad, Pakistan (Hybrid)

- Co-founded an early-stage venture providing Web Development & AI/ML Automation solutions, managing remote collaboration.
- Developed proof-of-concept AI solutions and web applications for initial small-scale clients.
- Gained foundational experience in client requirements gathering, proposal writing, and project delivery in a startup context.
- Developed WebWhisperer, a SaaS based platform for developing AI Chatbots for websites. Most accurate knowledgebase extraction while generating each chatbot in maximum 5 minutes. The product was later annexed and acquired by ImmoIQ. LinkedIn: linkedin.com/company/webwhispererai.
- Developed an AI-Based Prompt to Video Generator. Users would only need to enter a prompt, and the AI will create the relevant scenes and scripts for the AI to compile it into a shortform engaging content. Demo results: youtube.com/@CyberamsMedia/shorts.

SKILLS

- **AI/ML:** Large Language Models (LLMs - OpenAI, Anthropic, Google), Agentic Workflows, Langchain, LlamaIndex, Vector Databases (Qdrant), Machine Learning (Predictive Modeling, Scikit-learn), Computer Vision (OpenCV, Object Detection), Industrial Data Scraping & Processing, Generative AI Applications
- **Programming & Backend:** Python, GraphQL, Microservices Architecture, REST APIs
- **Tools & Platforms:** Git, Docker, Cloud Environments (AWS, GCP, Azure)
- **Databases:** SQL/NoSQL databases, PostgreSQL, MongoDB
- **Others:** Team Leadership, Project Management, Client Communication & Management, Agile Methodologies, SCRUM, Product Development Lifecycle, SaaS Product Development