Ali Akbar

aliakbarnashit146@gmail.com +91 9024522709 Ali ResearchGate ORCID Portfolio

Profile

A Computer Science student driven by curiosity and the perpetual search for answers. I approach challenges with adaptability shaped by diverse experiences in interdisciplinary learning. Whether working with new frameworks, automating workflows, or contributing to research, my focus is on understanding fundamentals and building practical solutions.

Core Projects

MeltnMunch — A simple E-Commerce platform *Django, Python, SQLite*

- Built a functional e-commerce web application that covers user accounts, product listings, cart management, and admin controls.
- Used Django's Model–Template–View architecture to organize backend logic and frontend rendering.
- Implemented user authentication and session handling using Django's built-in tools.
- Designed basic relational models for users, products, carts, and favorites using Django ORM.
- Integrated image uploads and static file handling for product media.
- Focused on clarity, maintainability, and learning core Django concepts rather than feature complexity.

OSINT Daily Digest Automation — n8n Workflow
n8n, RSS, Reddit API, LLMs

- Built a scheduled automation workflow that collects news-style items from multiple RSS feeds plus Reddit, then generates and emails a daily HTML digest.
- Merged multiple feed inputs, normalized data into a common schema.
- Used an AI Agent with a Gemini chat model to summarize only the stored table items into strict HTML email formatting, sent via Gmail.

Introductory Quantum Circuit using Qiskit
Python, Qiskit

- Implemented a minimal quantum circuit to explore foundational quantum computing concepts.
- Initialized a single-qubit system and applied **NOT (X)** and **Hadamard (H)** gates.
- Observed state vector changes and measurement outcomes to understand superposition and basis states.

Research and Publications

- "Evolutionary Computation: Potential and Limitations", IEEE ICEHAIDS 2024 — Co-author.
- Ali Akbar, Aftab Aqueel Khan."Revolutionizing Evolutionary Computation: Bridging Limitations with Integrated Technologies", Target: IEEE ICEHAIDS 2024. Draft completed.
- Ali Akbar."Inflationary Model as an Alternative to the Big Bang Theory: A Comprehensive Review" Draft available upon request.

Technical Skills

Programming
Python, Arduino IDE, HTML, CSS
Frameworks & Tools
Django, Django ORM, Git, SQLite, n8n Automation, Qiskit(basic), LLMs

Soft Skills & Languages

- Comfortable reading technical documentation and learning independently.
- Adaptive and detail-oriented approach to problem solving.
- Languages (CEFR): English (C2), Hindi/Urdu (Native), German (A2 basic), Russian (A1 basic).
- Extensive background in Military Science, Geopolitics, Philosophy, and Astrophysics.
- Avid Athlete, with significant achievements in Tennis, Karate, Cycling, Mountaineering, and Equestrian Sports.

Education

Bachelor of Technology
Computer Science Engg. in AI and ML (Ongoing)