AIMAN KULAY

AI ENGINEER | APPLIED AI & LLM APPLICATIONS | FULL-STACK DEVELOPMENT

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PROFESSIONAL SUMMARY

AI Engineer experienced in developing AI-powered business applications, automating operational workflows, building business intelligence dashboards, and evaluating large language models. Works across the full application lifecycle—from understanding business requirements and designing workflows to UI/UX, full-stack development, database integration, and deployment. Applies AI and software engineering to practical business problems, with additional experience in data analytics and internal application deployment.

TECHNICAL SKILLS

Programming: Python, SQL, JavaScript, TypeScript, C, C++

Frontend: Next.js, React, HTML, CSS, Tailwind CSS, Bootstrap

Backend & Databases: FastAPI, PostgreSQL, Supabase

AI / ML: Machine Learning, Deep Learning, NLP, LLM Applications, Retrieval-Augmented Generation (RAG), PyTorch, TensorFlow, Keras

Data Analytics: Pandas, NumPy, Matplotlib, Seaborn, Plotly, Power BI, Tableau

Tools & Deployment: Docker, Linux VPS, Windows Server, Git, GitHub, Jupyter, PyCharm, Spyder

PROFESSIONAL EXPERIENCE

Automation & AI Engineer | UMA ORNAMENTS — Mar 2026 – Present

- Developed business intelligence dashboards covering sales performance, client-wise growth, salesperson performance, and client-level analytics. Built reporting to help the business understand account activity, identify dormant clients, review purchasing patterns, compare salesperson performance, and make more informed client-prioritisation and strategic decisions.
- Reworked and expanded existing dashboard reporting that had been limited or underused, creating additional views for sales and client analysis rather than relying on only a small number of existing dashboards.
- Built an automated MOU-based pricing and calculation verification system for packing-list and order workflows. The system checks calculated values against each client's agreed MOU, including applicable gold, diamond, wastage, and labour-charge logic, rather than relying only on the arithmetic output of manually entered data.
- Designed the verification workflow to identify and highlight specific discrepancies caused by incorrect source entries, even when the resulting calculation is mathematically consistent with those incorrect inputs. This reduces the need for staff to manually inspect every line item and helps focus review on exceptions.
- Designed and developed Catalogue AI, a natural-language jewellery search application that lets CRM users retrieve matching designs from structured product data using customer requirements such as jewellery category, gold weight, karat, and diamond specifications.
- Built Snap Card to digitise visiting cards collected at exhibitions and sales events. The application extracts contact details, stores lead records, and enables sales representatives to initiate follow-up through pre-composed WhatsApp messages, calls, email, and CRM synchronisation.
- Developed Jewel Lab, a multi-mode generative AI application for converting jewellery sketches and CAD views into client-ready imagery, generating design variations and coordinated jewellery sets, and creating marketing creatives and model-worn product visualisations.
- Owned end-to-end delivery of business applications, translating requirements from management into solution workflows, UI/UX designs, frontend and backend development, database integration, AI functionality, and deployment.
- Self-hosted applications across the company's Windows Server and a Linux-based VPS. Used Docker on the VPS to package applications into consistent runtime environments and configure automatic restarts after application crashes or server restarts.

LLM Engineer | AAKANKSHA SOLUTIONS — Sep 2025 – Mar 2026

- Developed and executed test cases to evaluate Gemini 2.5 Flash and Gemini 2.5 Pro, examining model weaknesses, response behaviour, and failure triggers.
- Designed data-driven evaluation frameworks to assess model accuracy, reasoning depth, and response stability across varied prompt types and domains.
- Applied statistically grounded testing methodologies informed by data science and NLP principles to benchmark model behaviour under controlled variations.

EDUCATION

Rizvi College of Engineering | B.E. in Artificial Intelligence & Data Science | May 2025 | CGPI: 8.57

Boston Institute of Analytics | Certification in Data Science & AI | Apr 2025 | 9.3/10

R.D. & S.H. National College | HSC – Computer Science | May 2021 | 94.15%

Bhavans A.H. Wadia High School | Secondary School Education | Jul 2019 | 86.80%

SELECTED PROJECTS

Catalogue AI

Catalogue AI addresses a multi-team catalogue preparation workflow in which customer requirements received by the CRM team were passed to product development and then business development for catalogue preparation. When a client rejected a catalogue or requested changes, the process could repeat. The application was created to let CRM personnel search structured jewellery inventory directly and prepare relevant catalogue options closer to the point of client interaction.

- Developed a natural-language search experience so CRM users can describe customer requirements in everyday language instead of manually navigating product records or repeatedly passing requests between teams.
- Supports combined product requirements, such as a cocktail bracelet, a gold-weight limit, 14 KT gold, and a specified diamond requirement. The application uses the natural-language request to retrieve matching designs from structured product data.
- Designed the workflow to help CRM teams identify suitable products, prepare catalogues for clients, and respond to design or specification changes more directly.

Snap Card

Snap Card digitises the lead-capture process at exhibitions and sales events. Previously, employees collected visiting cards, details were manually written down or digitised later, and the records were passed to sales representatives. This created a delay between meeting a potential customer and initiating follow-up. Snap Card brings contact capture and sales follow-up into one application.

- Built a process to extract contact information from visiting cards and save the resulting details as digital lead records in the application.
- Made captured lead information available to sales representatives without waiting for a separate manual transcription and hand-off process after an event.
- Enabled users to act on a captured contact immediately through WhatsApp with a predefined message ready to send, phone calls, email, or synchronisation with the CRM system.
- Designed to reduce the time between collecting a business contact and initiating sales follow-up, while reducing dependence on manual data entry.

Jewel Lab

Jewel Lab is a multi-mode generative AI application built around the visual requirements of jewellery businesses. Jewellery designs may begin as hand-drawn sketches or CAD views, while clients need polished product imagery rather than raw design files. The application brings several design visualisation and creative-generation workflows together to support client presentations and design exploration.

- Jewellery rendering: accepts hand-drawn jewellery designs and CAD views and transforms them into polished product images on a clean white background, suitable for sharing directly with clients.
- Design variations: generates alternative interpretations from an existing jewellery reference, helping teams explore additional designs based on a client's supplied concept.
- Coordinated set generation: takes an individual jewellery piece or design element, such as a bracelet, and generates a coordinated jewellery set that follows the original design language.
- Marketing collateral: generates premium, luxury-oriented jewellery marketing creatives and campaign visuals for product and brand presentation.
- Model visualisation: generates imagery showing jewellery as if it were being worn by a model, supporting visual product presentation.

Level-Wise RAG System

Developed a retrieval-augmented generation application that allows users to ask natural-language questions about PDF documents and receive responses grounded in the document content. The project was designed for environments such as corporates and educational institutions, where different users may have different levels of access to information.

- Implemented document retrieval using FAISS and Llama to find relevant PDF content and generate contextual responses to user questions.
- Designed a level-wise access-control mechanism so information could be retrieved according to the user's assigned authorisation level.
- Focused on making document information easier to access through conversational queries while respecting configured access permissions.