

# AIMAN KULAY

Email: [aiman.kulay@gmail.com](mailto:aiman.kulay@gmail.com) | Contact: +919167596081 | LinkedIn: [Aiman Kulay](#) | Portfolio: [aimankulay](#)

## EDUCATION

<b>Boston Institute of Analytics</b> Certification in Data Science & AI	April 2025 <b>9.3/10</b>
<b>Rizvi College of Engineering</b> B.E. in Artificial Intelligence & Data Science	May 2025 <b>CGPI: 8.57</b>
<b>R.D. &amp; S.H. National College</b> HSC in Computer Science	May 2021 <b>94.15%</b>
<b>Bhavans A.H. Wadia High School</b> Secondary School Education	July 2019 <b>86.80%</b>

## SKILLS

- **Frontend:** HTML, CSS, JS, TypeScript, Next.js, Tailwind CSS, Bootstrap
- **Programming:** C, C++, Python, SQL
- **Tools:** Power BI, Tableau, Git, GitHub, Jupyter, Spyder, PyCharm, Supabase
- **Libraries:** Pandas, NumPy, Matplotlib, Plotly, Pytorch, TensorFlow, Keras, Seaborn
- **AI:** Machine Learning, Deep Learning, NLP

## WORK EXPERIENCE

<b>UMA ORNAMENTS</b> Automation & AI Engineer	Mar 2026 – Present
<ul style="list-style-type: none"><li>● Developing automation solutions for internal systems to enhance workflow efficiency, minimize manual intervention, and support smoother day-to-day operations.</li><li>● Implementing RAG-based AI systems to improve retrieval of business-critical information, enable context-aware outputs, and strengthen knowledge accessibility across workflows.</li><li>● Building agentic AI solutions to automate routine processes, improve execution speed, and drive intelligent workflow optimization within internal operations.</li></ul>	
<b>AAKANSHA SOLUTIONS</b> LLM Engineer	Sep 2025 – Mar 2026
<ul style="list-style-type: none"><li>● Developed and executed comprehensive test cases to evaluate the performance and reliability of Gemini 2.5 Flash and Gemini 2.5 Pro, focusing on identifying model weaknesses and failure triggers.</li><li>● Designed analytical and data-driven evaluation frameworks to assess model accuracy, reasoning depth, and response stability across diverse prompt types and domains.</li><li>● Implemented statistically grounded test methodologies integrating data science and NLP principles to benchmark model behavior under controlled variations.</li></ul>	
<b>STRATOGRID.AI</b> Web Developer (Part-Time)	Jun 2025 – Jan 2026
<ul style="list-style-type: none"><li>● Designed and developed complete, brand-aligned websites from concept to deployment, handling UI/UX design, marketing collateral, and content strategy single-handedly.</li><li>● Executed end-to-end web development using Next.js, TypeScript, React, and Tailwind CSS, ensuring responsive, high-performance, and visually cohesive interfaces.</li><li>● Conducted in-depth research on the company's domain, competitors, and target audience to craft a design language that accurately reflected the brand's identity and product vision.</li><li>● Created complementary digital assets including pitch decks, campaign visuals, and brand materials, maintaining consistency across all design and marketing touchpoints.</li></ul>	

## PROJECTS

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### ADAPTIVE AI BASED QUIZ GENERATOR FROM VIDEO

- Developed an intelligent system that generates adaptive MCQs directly from educational video content, dynamically adjusting question difficulty based on learner performance.
- Built a transcript processing pipeline leveraging NLP techniques (tokenization, lemmatization, Bag of Words, TF-IDF) to identify high-importance segments and eliminate redundant video content
- Implemented a question-level difficulty engine that personalizes quizzes to assess learner strengths and weaknesses, ensuring fair and targeted evaluation.
- Enabled real-time question generation and adaptive progression, bridging passive video learning with active comprehension testing for measurable learning outcomes.

### DIGITAL MARKETING CONVERSION PREDICTION SYSTEM

- Developed a high-precision deep learning model to predict digital marketing campaign conversions, tackling highly imbalanced datasets with over 20+ features and near non-linear correlations.
- Engineered advanced data balancing techniques to counteract severely imbalanced classes, ensuring bias-variance tradeoff optimization for maximum generalization.
- Integrated multiple machine learning algorithms and deep learning architectures to achieve an impressive score on various metrics without sacrificing fairness or overfitting.
- Built an interactive Tableau dashboard to visualize key insights and performance metrics, enabling data-driven decision-making for marketing strategies.

### BRAND CLASSIFICATION USING DEEP LEARNING (CNN)

- Developed a deep learning-based CNN model to classify images of shoes into two brands: Adidas and Nike.
- Experimented with multiple pretrained architectures including VGG16, MobileNet, and ResNet
- Optimized model performance through hyperparameter tuning, achieving high classification accuracy.
- Gained hands-on experience in convolutional neural networks (CNNs) and deep learning techniques, enhancing understanding of feature extraction and neural network optimization.

### LEVEL-WISE RETRIEVAL-AUGMENTED GENERATION (RAG) SYSTEM

- Developed a Retrieval-Augmented Generation (RAG) model using Llama and FAISS as the vector database, enabling natural language interaction with PDFs.
- Designed the system to allow users to ask questions in plain language, retrieving and generating responses based on PDF content.
- Built a level-wise access control mechanism, ensuring information is accessible only to authorized personnel in environments like corporates, colleges, and enterprises.
- Optimized the model for efficient data retrieval and contextual response generation, making information access seamless for users with the required clearance.

### CAR PRICE PREDICTION USING MACHINE LEARNING

- Built a regression-based machine learning model for car price prediction, leveraging a dataset with over 26 features.
- Implemented multiple machine learning algorithms, optimizing performance through feature engineering and outlier detection.
- Gained hands-on expertise in error evaluation metrics such as Mean Squared Error (MSE), Mean Absolute Error (MAE), and others to assess model performance.
- Developed a highly efficient and accurate model capable of predicting car prices with precision.

### WEWASH CLIENT WEBSITE | [Link](#)

- Designed and developed a website for a premium laundry and home-cleaning service based in Mumbai.
- Collaborating closely with the client to translate their brand identity into a clean, elegant, and intuitive user experience.
- Leading the UI/UX process using Figma to craft a seamless design that prioritizes user comfort, trust, and service clarity.
- Built the site using a modern tech stack like Next.js, React.js, Tailwind CSS, Typescript for scalability, maintainability, and dynamic content integration.
- Implemented a mobile-first approach, ensuring optimized layouts and performance across all devices.
- Added LLM based Chatbot for better Customer Experience making the website smart.