

# Uzma Khatun

## Aspiring AI/ML Engineer

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Motivated AI/ML Engineer pursuing a BCA with a focus on building scalable and intelligent systems. Experienced in Python, LangChain, Streamlit, and Agentic AI workflows. Adept at transforming ideas into automation-powered AI tools for real-world use.

## Internship Experience

**AI/ML Engineer Intern | AffyCloud IT Solutions (Arpil 2025 – September 2025)**

### Decision Support Agent

- Developed an AI-driven agent to analyze and compare company stocks for investment decisions.
- Integrated Yahoo Finance data with Crewai agents for performance and sentiment analysis.
- Generated intelligent recommendations on whether to invest in a particular company, backed by data-driven reasoning.

**AI Engineer Intern | BXB Analytics**

**FableBug AI – Bedtime Story Generator**

**(July 2025 – August 2025)**

- Developed an AI-powered story generator for kids using n8n automation workflows and LLM-based storytelling.
- Integrated Perspective API for toxicity filtering and Supabase for storing story data and user inputs.
- Designed a dynamic frontend for generating creative, personalized bedtime stories with consistent characters and themes.

**Programmer Analyst Intern | Afucent**

**(September 2025)**

### AI Automation

- Developed email and LinkedIn automation workflows to streamline outreach and engagement processes.
- Utilized n8n for no-code automation and integrated APIs for seamless message scheduling and delivery.
- Enhanced communication efficiency and improved lead management through data-driven automation solutions.

## Projects

### [LinkedIn Carousel Generator](#)

- Built automated n8n workflow aggregating 10 RSS feeds, analyzing storage industry trends with AI, and generating targeted LinkedIn carousels.
- Integrated OpenRouter LLMs for content summarization, trend analysis, and B2B marketing copy generation.
- Implemented HTML-to-image conversion, PDF export, and LinkedIn API posting for end-to-end carousel automation.

### [PDF Q&A Bot](#)

- Built a question-answering bot that extracts answers from uploaded PDF files.
- Integrated LangChain, FAISS, and SentenceTransformers for semantic search.
- Designed a user-friendly Streamlit app for document-based interactions.

## AI Chatbot

- Developed an interactive AI chatbot using LangGraph and LLM-based tools.
- Enabled real-time conversation using Tavily api and response generation.
- Frontend built with Streamlit, backend deployed via Render for smooth user experience.

## AI Story Generator

- Built AI-powered story generator using Groq LLM and Streamlit with customizable genre, theme, style, and character inputs.
- Implemented multi-format export TXT and HTML with emoji enhancement features for creative storytelling.
- Integrated Groq API with optimized prompting for fast, context-aware narrative generation tailored to user specifications.

## PDF to Excel Converter

- Built an intelligent document automation tool that transforms unstructured PDF files into organized Excel spreadsheets.
- Integrated Groq AI for pattern recognition and semantic parsing to extract and structure data from complex documents.
- Designed a user-friendly Streamlit interface for seamless PDF upload and instant Excel export functionality.

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## Education

### **Barkatullah University, Bhopal**

Bachelor of Computer Applications (BCA) (2023-2026)  
Currently in 3rd Year

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## Skills

**Programming Languages:** C, C++, Python, SQL

**Data Visualization:** NumPy, Pandas, Matplotlib, Seaborn, Jupyter Notebook, Colab

**Data Analysis:** Hypothesis Testing, Statistical Analysis, Feature Engineering, Dimensionality Reduction, Cross-Validation Techniques, Model Evaluation

**Machine Learning Techniques:** Supervised Learning, Unsupervised Learning, Clustering, Decision Trees, Random Forest, K-Means, Naive Bayes, Ensemble Methods, Anomaly Detection and Deep Learning

**Advanced Technologies:** LangChain, LangSmith, Crewai, Agentic AI, RAG (Retrieval-Augmented Generation)

**Automation and Workflow Took:** n8n

**Version Control:** Git, GitHub