

Mahnoor Arif

DOB-28 March, 2000 | Generative AI / Machine Learning Engineer
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EDUCATION

COMSATS UNIVERSITY

MS IN ARTIFICIAL INTELLIGENCE

Grad. July 2025 | Islamabad, Pakistan

BS IN SOFTWARE ENGINEERING

Grad. July 2022 | Wahcantt, Pakistan

LINKS

Portfolio:// [Portfolio Profile](#)

Behance:// [Behance Profile](#)

Github:// [GitHub Profile](#)

LinkedIn:// [LinkedIn Profile](#)

ACHIEVEMENTS

Researched and implemented **multi-step reasoning in VQA**, improving explainability in AI models.

Contributed multiple **open-source projects** in Generative AI, NLP, and full-stack applications.

Experienced in **end-to-end product development**: from research -> prototyping -> production-ready systems.

SKILLS

CORE COMPETENCIES

- Generative AI, NLP, Computer Vision, Speech Processing, Multi-step Reasoning, Full-Stack Web Development

PROGRAMMING LANGUAGES

- Python, JavaScript, TypeScript, Java, C++

FRAMEWORKS & LIBRARIES

- PyTorch, TensorFlow, LangChain, React.js, Next.js, Streamlit

TOOLS & PLATFORMS

- Node.js, MongoDB, GraphQL, Strapi, Git, Linux
- Workflow Automation: Zapier, n8n, Slack Apps, Zendesk, Stripe Integrations

SUMMARY

- Results-driven **Generative AI & Software Engineer** with expertise in **NLP, multi-step reasoning**, and **end-to-end ML pipelines**.
- Proficient in **PyTorch, TensorFlow**, and **LangChain**-based **RAG systems** for scalable AI solutions.
- Experienced in building **production-ready applications** with **Next.js, Node.js, MongoDB**, and automation tools (**Zapier, n8n, Slack apps**).
- Proven track record of turning **research into real-world products**, including **Visual Question Answering, lip-sync generation**, and workflow automation projects.

EXPERIENCE

SOFTWARE ENGINEER | FULL TIME

Nov 2022 – Dec 2024

- Delivered full-stack projects using **Node.js, Next.js**, and **MongoDB**.
- Built and integrated **Slack apps, Zapier**, and **Zendesk** workflows to automate business processes.
- Implemented secure **Stripe payment integrations** (subscriptions, reporting).
- Collaborated with teams to deliver high-impact features with clean, maintainable code.
- Optimized performance through testing, debugging, and efficient data modeling.

PROJECTS

IMPROVING EXPLANATION GENERATION IN VISUAL QUESTION ANSWERING | MS THESIS | GENERATIVE AI

May 2024 – June 2025 | NLP | Computer Vision

- Developed a **multi-step reasoning VQA system** using **CLIP** and **Distilled GPT-2**, improving answer accuracy and explanation generation.

LIP-SYNC GENERATION | GENERATIVE AI | COMPUTER VISION

GitHub:// [Repository](#)

- Built a deep learning pipeline to **sync avatar lip movements with speech** using Python and ML frameworks.

N8N AUTOMATION PROJECTS | WORKFLOW AUTOMATION & AI INTEGRATIONS

GitHub:// [n8n Workflows](#)

- Multi-Agent AI Pipeline** – Designed a three-agent workflow (Scraper → Summarizer → Translator) that automatically collects news, generates concise summaries with GPT, and translates them into Spanish/French, storing results in Google Sheets.
- Invoice Automation System** – Automated invoice parsing by extracting vendor, due date, items, and totals from emails into structured JSON and triggered payment reminders.
- Document Q&A Agent (Mini-RAG)** – Implemented a retrieval-augmented generation workflow to embed documents, query them via GPT, and return context-aware answers.