

# Mayank Paliwal

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## PROFILE

Recent MCA graduate with a proven track record in Python development, specializing in AI/ML. Passionate about building intelligent chatbot solutions, as demonstrated by my real-time chat and screen-sharing application. Eager to apply my skills within a dynamic team focused on chatbot innovation.

## PROJECTS

**Python Real-Time Chat and Screen-Sharing Application** [🔗](#) Feb 2024 – present

- **Deployed Link** [🔗](#)
- Developed core features using Python, Flask, and Flask-SocketIO for seamless real-time communication.
- Optimized performance through WebSocket integration, reducing communication delays by 30%
- Enhanced user experience with an intuitive frontend (HTML, CSS, JavaScript), increasing satisfaction by 25%.
- Managed code effectively using Git for version control and collaboration.

**Voice-Enabled Python Virtual Assistant** [🔗](#) Oct 2023 – Nov 2024

- Designed and implemented core virtual assistant functionality using Python, including voice recognition and text-to-speech modules.
- Addressed the need for hands-free, efficient task management and information retrieval.
- Enhanced user productivity by 30% with voice-controlled commands, automating frequent tasks.
- Achieved 95% accuracy in speech recognition, ensuring seamless user interaction and command execution.
- **Tech Stack:** Python, Speech Recognition, pyttsx3, Git.

## SKILLS

**Programming Languages** (Python, SQL, R) | **Frameworks** (NumPy, Pandas, Matplotlib, Flask, NLTK)

**AI/ML** (Data Analysis, Natural Language Processing (NLP), Machine Learning)

**Tools** (Git, Linux, GitHub, Data Structures & Algorithms) | **Databases** (MySQL, PostgreSQL)

## EDUCATION

**MCA - AI & ML**, IIMT University, Meerut Sep 2022 – Aug 2024  
Master of Computer Applications specialization in Artificial Intelligence and Machine Learning.

## PROFESSIONAL EXPERIENCE

**Software Engineering**, Quantum [🔗](#) Oct 2023

- Developed an interactive Python/Dash application for analyzing price change impact on sales, contributing to a 20% rise in client satisfaction.
- Streamlined testing processes with Unittest and Bash scripting, ensuring code reliability and reducing downtime by 30%.

## CERTIFICATES

- Python Programming by Microsoft [🔗](#)
- Google Data Analytics Certificate [🔗](#)
- Linux Certificate by IIT Kanpur