

# Mohan Chaturvedi

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## PROJECT EXPERIENCE

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### College Related Enquiry Chatbot

- **Project Summary:**
- As a Backend Developer, I designed and developed a sophisticated Conversational AI Chatbot to facilitate efficient college enquiries. Leveraging cutting-edge technologies, this platform provides users with personalized support and streamlined access to information.
- **Technical Specifications:**
- **Natural Language Processing (NLP):** Utilized **spaCy** to enable advanced text analysis, entity recognition, and intent identification.
- **Dialogue Management:** Implemented **ChatterBot** to power intelligent, context-aware conversations.
- **Primary Programming Language: Python**, ensuring flexibility, scalability, and seamless integration with other technologies.
- **Database Management:**
- **User Prompts Storage: MySQL**, providing structured data storage and efficient querying capabilities.
- **Chatbot Responses Storage: MongoDB**, offering flexible, scalable storage for unstructured response data.
- **Tech Stack:**
- **Programming Language:** Python 3.x
- **NLP Library:** spaCy
- **Chatbot Framework:** ChatterBot
- **Web Framework:** Flask
- **Database Management Systems:**
- **Relational Database:** MySQL
- **NoSQL Database:** MongoDB
- **Key Responsibilities (as Backend Developer):**
- Designed and implemented the chatbot's backend architecture
- Developed and integrated NLP capabilities using spaCy
- Configured and managed database schemas for user prompts and chatbot responses
- Ensured seamless data exchange between frontend and backend components using Flask
- Collaborated with the development team to deploy and maintain the chatbot application

### Blood Bank Management System

- Developed and maintained a software application for managing blood bank operations, contributing to a more efficient blood donation process.
- Utilized data structures to ensure data accuracy and accessibility.

## EDUCATION

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**VIT BHOPAL UNIVERSITY, Bhopal, Madhya Pradesh India.**

**Graduation Year :2026**

*Degree: Bachelors, Majors: Computer Science*

▪ CGPA: 7.42/10

## CERTIFICATIONS, SKILLS & INTERESTS

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- **Certifications:** Coursera Certified Course in Industrial IoT Markets and Security
- Essential Course in Python Programming by Vityarthi
- Essential Course in Fundamentals of AI and ML by Vityarthi
  
- **Skills :** Programming Languages: Java, C++, Python
- Data Structures and Algorithms
- Problem Solving
- Experience with IDEs like IntelliJ IDEA
- Basic knowledge of SQL and databases
- Familiar with Software Development Lifecycle (SDLC)
- Competitive Programming and Coding Challenges
- Proficient in implementing and optimizing data structures (arrays, linked lists, stacks, queues, trees, graphs)
- Strong analytical and logical thinking skills
- Learning Linux Environment
- Learning and Developing skills in Kubernetes
  
- **Interests :** Member of Robotics Club
- Participated in Robo-race
- Artificial Intelligence
- Machine Learning